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Jan.	ARDC
Feb.	Bureau of Naval Weapons
Mar.	NASA
Apr.	Navy Supply System
May	Army Ordnance
June	Air Materiel Command
July	Navy ASW Program
Aug.	Navy Astronautics Program
Sept.	Army Signal Corps
Oct.	Army R&D Program
Nov.	Mutual Security (ICA) Program
Dec.	Dept. of Defense

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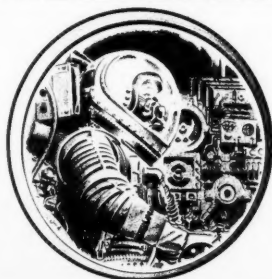
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Cover:

This is DATA's first full color cover. The special painting showing a Lockheed POLARIS on its test pad at Cape Canaveral was skillfully prepared by Lieutenant E. T. "Ted" Wilbur, USNR. Ted is a rare combination in that he is a naval aviator and a fine artist at the same time. Although attached to NAS Norfolk as an S2F pilot, he frequently flies to other places and likes to paint what he sees. DATA is very proud to run Lt. Wilbur's most recent painting as its first full color cover.

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NEXT MONTH IN DATA

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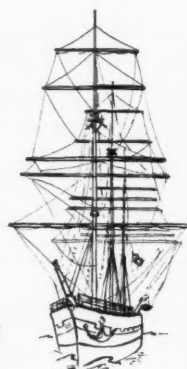
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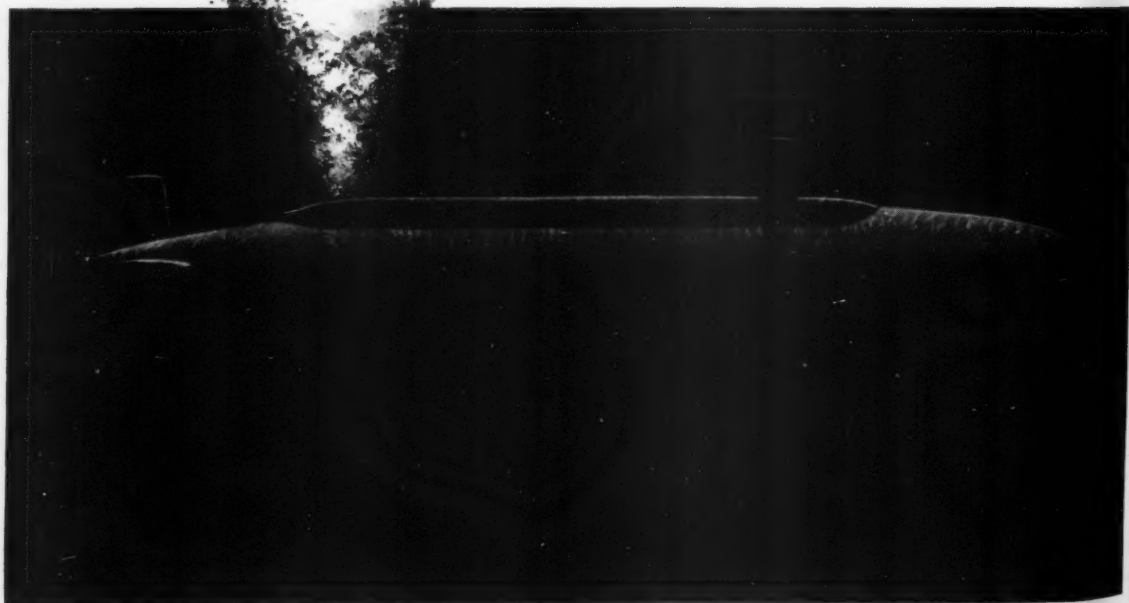


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Executives in the District of Columbia Answer DATA Questions . . .

THE WASHINGTON REP REPORTS

QUESTION:

What new scientific achievement would you most like to see in your lifetime?

Mr. Spencer M. Beresford
Special Counsel
Committee on Science and Astronautics
House of Representatives
Washington 25, D. C.

The scientific advance I would most like to see in my lifetime is the discovery of intelligent life on other worlds. This is a real possibility, as Harlow Shapley showed in his book, *Of Stars and Men*—not a mere flight of fancy like, say, the invention of a time machine. It is true that other breakthroughs, such as a cure for cancer, would bring more tangible and immediate benefits to mankind. But the discovery of life on other worlds could unlock the age-old secrets of life and its origins. The discovery of intelligent life, in particular, would profoundly affect man's view of himself and his place in the universe.

Mr. H. A. Crossland
General Electric Company
777 14th Street, N. W.
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The most important discovery science can give the world today is a 100 percent dependable counter-weapon to completely assure the world population against extinction by nuclear weapons (assuming that world-wide disarmament will not be achieved).

Mr. O. L. Stevens
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I would like to see better scientific achievement in the area of underwater communication plus the detection and identification of submerged objects. I feel we are going wild about outer space and forgetting the great importance of inner space.

Mr. R. N. Norgard
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The conversion of seawater to fresh water in quantities sufficient for irrigation and industrial uses would be, in my opinion, the most useful scientific discovery we could make.

Mr. George M. Riveiro
Goodyear Tire and Rubber Co.
902 Ring Building
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I would like to see a scientific discovery for the cause, treatment and cure of cancer in all forms.

Mr. A. C. Johnson
Oakite Products, Inc.
1511 Overly Drive
Alexandria, Virginia

We need a sure-fire cure for cancer. This is more medical than scientific but equally—if not more—important.

Mr. William Hines
Science Editor
The Washington Star
225 Virginia Avenue, S. E.
Washington, D. C.

In answer to your question, I would like to pose another: IF YOU REGARD MY OPINION AS A THING OF VALUE, HOW DO YOU JUSTIFY EXTRACTING IT FROM ME WITHOUT COST AND THEN USING IT FOR YOUR PERSONAL PROFIT? Answer this question in terms I can understand and maybe I'll see some reason to accede to your request.

Mr. John W. Abouchar
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An invention to neutralize gravity would be the scientific achievement I would most like to see occur.

Colonel D. J. Bailey, USA (Ret.)
Raytheon Company
1000 16th Street, N. W.
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My desire is to see the realization of interplanetary travel.

Mr. Leonard M. Smith
7843 Jay Miller Drive
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Mr. R. A. Carpenter, Mgr.
Callery Chemical Company
Rm. 709 Dupont Circle Building
Washington 6, D. C.

I would like to see the discovery of scientific proof of extra-sensory perception and all its connotations.

INTERPRETIVE DATA

by Harold Helfer/DATA

POLARIS

The POLARIS missile, generally taken for granted as a pillar of our defense posture, may be on its way toward becoming one of the most controversial weapons of all time.

Ironically, this is because the POLARIS is turning out to be better than even some of its most ardent supporters thought it would be.

It is so good . . . not only is it more accurate than anticipated, but safer to handle too . . . that the Navy is poised now to ask for a much more substantial POLARIS program.

Theoretically, everyone—even the Air Force and Army—is for the POLARIS: How can you be against having a weapon in your country's arsenal that can be fired from underneath the sea and that travels 1200 miles right to the heart of an enemy's stronghold? It would be like not being for church and motherhood.

But now Navy leaders, in their newly-launched enthusiasm for the POLARIS, have let it be known that the construction of nine ballistic missile nuclear subs would not only be feasible but desirable in the fiscal year ahead and that, actually, the effort should be made to step up the production of these subs to one a month.

In an informal way, Congress already has been informed of these feelings and sentiments on the part of the Navy. And, if you should suddenly hear a mighty roar and eruption shaking the Pentagon to its last shiny corridor, then you'll know that the Navy has taken the step of formally asking for the money to speed up the POLARIS program.

Understand, it isn't only the billion dollars extra money that the Navy would be getting to which the Air Force and Army would object, although much of this money undoubtedly would have to come from the hide of the Air Force and Army, but also the military strategy and philosophy that would be involved.

The Air Force is particularly sensitive about all this. For it feels innately that its Strategic Air Command, with its land-based missiles and manned bombers, is the No. 1 retaliatory force and war deterrent. (As a matter of fact, SAC feels, and has so publicly stated, that the POLARIS weapon should be under its jurisdiction too). But it regards the POLARIS principally as a "diversion" that would complicate the enemy's life and enable the Air Force to more quickly and devastatingly penetrate the enemy's shield.

On the other hand, the Navy feels that the POLARIS has emerged as the nation's primary retaliatory and deterrent force, that it is around this powerful under-sea weapon that our retaliatory strategy should pivot.

The Navy has been pointing out over and over again the great distinctive value of the POLARIS, that it can hide underneath the sea and there, undetected, launch its deadly missiles. But the Air Force doesn't even hold this view to be sacrosanct. The Air Force says we can't be sure that the POLARIS sub will be undetectable, that undoubtedly the Soviets have anti-submarine warfare programs underway, just as our Navy does and, that, if we put all or most of our defense eggs in the POLARIS basket, we would just

permit Russia to concentrate on its anti-sub efforts.

Furthermore, says the Air Force, the use of the POLARIS would lead to a more undesirable war because, not being quite as accurate as land-based missiles and certainly not as reliable as manned bombers.

Congress . . . up until now anyway . . . has seemed to be rather disposed toward the POLARIS. It appeals to this body of military laymen in its simplicity of function and strategic concept—and also economically. Theoretically, anyhow, all you'd need is a relatively small group of these subs and, strategically set-up around the seas of the world, they ought to be deterrent enough to restrain any would-be aggressor.

As to the Air Force's feeling that reliance on the POLARIS might lead to a city-destroying rather than a military-base-destroying war, the Navy says it is by no means certain that the Air Force could successfully seek out these bases in a secretive country like Russia and that, furthermore, the very fact that the POLARIS missile would likely involve the destruction of cities enhances its deterrent effect.

If the Air Force and the Navy got into a toe-to-toe slugging match over the POLARIS, the decision Congress finally would make in the matter probably is in some doubt. But what there isn't any question about is that the military fur would really fly over this one.

It is also certain that DOD would do its best to prevent such a situation. For that reason, also because it must live with a budget-minded Administration, it might decide to withhold a request for any further Navy funds for POLARIS.

But, even if Congress voted more POLARIS funds, there would be nothing to compel DOD to use this money. And, if DOD didn't, but allowed all this POLARIS money to lie fallow, then the emergency of hot-under-the-collar Congressmen and burned-up admirals into the picture would really have things boiling.

Oddly enough, a party that doesn't have anything to do with any of this might have a deciding influence. That's England.

Britain has a sort of miniature POLARIS debate underway too. The Royal Navy is in favor of creating a force of three or four POLARIS subs but the value of these are being seriously questioned in Britain. One factor is the cost. But, even more importantly, as far as the U. S. is concerned, is that Britain has doubts too about how undetectable these POLARIS subs will remain with the increasing effectiveness of sonar and other such electronic devices. If England should finally turn down the idea of a small POLARIS fleet, and if it is apparent that military reasoning played a large part in this decision, then it is bound to have a dampening effect on the POLARIS program here. *Britain may not rule the seas any more but few are inclined to underestimate her understanding of the rules of the sea.*

Everyone, of course, hopes that the POLARIS will never have to be fired, for if it does, it will have failed its major purpose for being. But one thing the POLARIS isn't likely to be much of a deterrent at is holding off a ringing debate about it.

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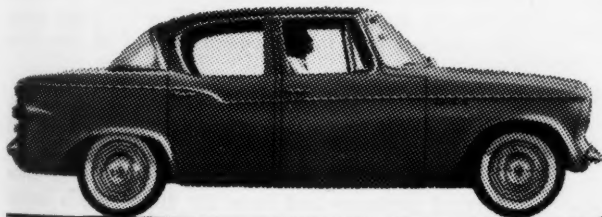
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UNDERSTANDING THE MISSION

THE UNITED STATES NAVY today contains more military strength and destructive power than most of us can truly comprehend. With its new fleet of carriers and their supersonic fighters and bombers that carry a variety of "special stores," with an existing qualitative submarine fleet and a still-developing nuclear-submarine-and-FBM weapon force, the Navy has become, literally, an instrument capable of waging maximum destructive war at any point on this globe. Now, no one within the Navy would argue that this is so—the logic of apparent fact is unflinching.

But what about outside the Navy? As vital a part of the Navy's mission as maintaining its military capability, is the requirement for public understanding of that mission. Old veterans may bristle at this contention, that public understanding is necessary to fulfilling the stated mission, but their bristling will do little more than to intimidate their immediate subordinates.

The old days are gone forever. The public had World War II, and then Korea, and then year after year of cold war. There's a lot said with a curled lip about public apathy toward our national military problems, but this writer for one thinks that *apathy* is a frazzled dog of a word that isn't at all realistic. The American public has had hammered at it threats of total extinction from nuclear bombs and then thermo-nuclear bombs. They've been warned of a horrid mangling and mass death from Russian bombers, submarines, and missiles. They've been smothered with grisly stories of what will happen to them because of radioactive fallout, radioactive dust, a variety of chemical agents, all manner of biological agents. They're told the Russians can dump hydrogen bomb warheads right on the intersection of Main and Fourth in their home town, that we can't stop an attack; and they watch most of our space efforts stumble while their newspaper prints a full front-page photo of the other side of the moon—taken, of course, by a Russian space vehicle.

Against all this, they are also told by Navy public relations that our Navy is the world's most powerful, its a deterrent to war, a major factor in any future conflict, etc., etc., etc., and so forth.

Frankly, the public hasn't bought this story. First of all, there's no use in selling the Navy as a deterrent to war, if in the next breath you wax eloquent about how the Navy will fight that war it obviously failed to deter!

And then, let's take this matter—from the public's point of view—of the importance of the Navy in any future conflict. The public doesn't understand the fine

points of modern technological development; remember that they have been drowning in an avalanche of frightening stories of missiles, pushbutton war, mass destructive weapons, and eyes in the sky. Its a helpless feeling, and the public is in a mild state of shock, having accepted, however dimly in the back of their mind, that really, they can't do a damn thing in the next war to save their skins.

Against this picture of total obliteration, the Navy tells its story of carriers and submarines. Now to John Doe, a carrier is something used in World War II, and its planes were small, and they didn't have much range. His concept of this picture *hasn't changed*. Oh sure, the carrier is bigger and the planes faster, but so what?

In his own prosaic terms, what the hell good is that carrier and its small airplanes going to do *him*, and his family, when the Russians decide to go all the way, and they release the thousands of missiles that he—the taxpayer—honestly believes are standing ready and waiting on their firing pads?

I know—and many of my colleagues know—that even another mass war isn't a war only of big missiles and big bombers. We can understand that the nuclear submarine, the fast carrier with its fleet of supersonic, atomic-bomb-armed planes, the supporting surface ships—that all these are an essential, intrinsic ingredient of our national strength. *We* know that this force is a deterrent to a major war and, in the event of the new trend in killing people—the so-called brushfire war—we absolutely need the Navy's singular capabilities.

But John Doe doesn't know this, and he pays the taxes, and right now he just doesn't believe that the Navy really must have what it claims is vital to fulfilling its mission. And because John Doe, besides paying taxes, also elects those officials who determine the Navy's budget, it behooves Navy to bring some valid education of the Navy mission to all the John Does.

This hasn't happened yet. In the next several years, this weakness in public information—and it is a serious weakness—may begin to have a telling effect. Its not going to be an easy job—its much simpler to show picture of airplanes and have the Blue Angels dazzle millions of people—but its a job that will either be done properly, or the Navy will find itself in worse appropriations trouble than it now has. And that will be bad, not just for Navy, but for the entire country.

Navy information office: please take note.

—MARTIN CAIDIN



MISSION OF THE US NAVY BUREAU OF SUPPLIES AND ACCOUNTS

The Bureau of Supplies and Accounts, home of the Navy Supply Corps, has a mighty big job on its hands. Its primary mission is to provide the logistic support of US seapower. It directs, coordinates and manages the Navy supply system. Through research and development it formulates policies and directs supply as well as certain fiscal operations on sea and shore. To do its job, the Bureau requires and appreciates constant help from industry.

The Bureau of Supplies and Accounts exercises management control over the following type of organizations and activities of the Shore Establishment: Naval supply centers; Naval supply depots; supply demand control points (offices); Navy purchasing offices; supply annexes; Navy fuel depots; Navy central freight control offices; Navy overseas air cargo terminals; Naval Uniform Shop; Navy exchanges; Navy commissary stores; Navy Store Office, N.Y.; Naval Supply Research and Development Facility, Bayonne, N.J.; Navy Material Catalog Office, N.Y.; Navy regional accounts offices; Navy accounts disbursing offices; Navy Officers Accounts offices; Navy Finance Center; and Naval Supply Facility, N.Y.



Reliability is a most important characteristic of KENNAMETAL*

Seal rings in pumps handling red fuming nitric acid for rockets face a most severe test against corrosion, especially since they may be in contact with the acid for years before being required to operate.

In one particular assembly, rings were exposed to temperatures of 300° under 45 psi face pressures while rotating 17,500 rpm. The previously used material lasted approximately 120 minutes. Then rings made of Kennametal grade K501 were installed and one of the world's leading designers and manufacturers of aircraft components and systems, reports average life of the Kennametal rings as "over 120 minutes to indefinite."

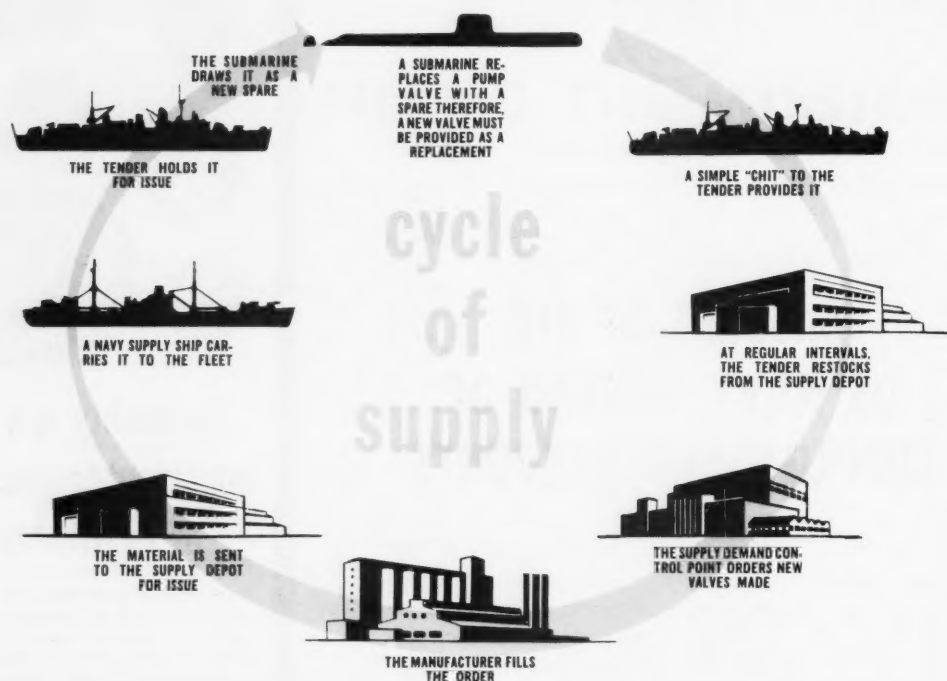
They state that "the Kennametal rings sealing results have been far superior with no indication of seal face wear" and that "the Kennametal ring has indications of less bending and distortion when installed between two mounting faces making assembly simpler and reducing assembly time."

Chances are some vital components for your equipment can be made from Kennametal to provide unusual resistance to abrasion, erosion or deformation required for valve parts, nozzles, plungers, metering orifices, integrator discs, thermostatic sensor elements, non-lubricated guides and parts to operate at temperatures to 2200°F and above. For specific recommendations on the Kennametal or Kentanium* composition that will best suit your need, contact your Kennametal Representative. Or, write for Booklets B-111-A and B-444-A. Kennametal Inc., Dept. DT Latrobe, Pa.

*Trademark of a series of hard carbide alloys of tungsten, tungsten-titanium and tantalum.

INDUSTRY AND
KENNAMETAL
...Partners in Progress

Doing Business with the Navy Supply System



SUPPORTING THE UNITED STATES NAVY operating forces and shore establishment is a vital military venture that encompasses one of the world's largest and most complex business operations. This is the job of the Navy Supply System, which reaches across oceans and continents to serve our fleet with its lifeblood of supply.

Today's fast-moving nuclear Navy consumes a fantastic amount of material. A typical task force devours about 300 measurement tons of material every day, and this does not count the ammunition and fuel it requires. The Seventh Fleet in the Western Pacific needs some 12 million barrels of oil, 70,000 tons of provisions and 260,000 separate issues of repair parts and other general items a year to keep in fighting trim.

Every day of the year the Navy's operating forces and shore establishment call on the Navy Supply System for 110,000 items. This comes to more than 28 million things that are required annually.

To meet these enormous demands the Navy Supply System maintains a 12 billion inventory. A large mail order house normally carries about 100,000 items, about one-tenth of the number in the Navy Supply System.

Management of this tremendous inventory means buying, distributing, warehousing, transporting and getting into the hands of the customer the material he needs to operate. The System must account for its stocks and provide other accounting services for the

Navy. It directs a retail merchandising program larger than *Macy's* and *Marshall Fields'* combined and it also disposes of excess and surplus property for the Navy.

Feeding the Navy is another responsibility of the Supply System. Subsistence operations are world-wide, and the Navy's annual food bill runs as high as \$142 million. Transportation, too, has a major stake in Supply. To process, handle and ship Navy material, the System uses almost \$85 million yearly.

Administering this huge military business operation are the Bureau of Supplies and Accounts, its field activities, and the officers of the Navy Supply Corps. The Bureau, headed by Rear Admiral James W. Boundy, SC, USN, is both a Supply and a Technical Bureau. In its technical responsibilities it determines the Navy's requirements for food, clothing, office machines and materials handling equipment. As a Supply Bureau it manages the Navy Supply System inventory of some 450,000 repair parts and 220,000 common supply items.

Heart of the Navy Supply System is the Navy Supply Corps, unique among all the military services. R/Adm. Boundy is in addition to being Chief of the Bureau of Supplies and Accounts, the Paymaster General of the Navy. As such he wears another hat—that of head of the Supply Corps. Members of the Corps serve on land and at sea, aboard Navy ships and installations. They are first of all naval officers. They are, also, trained business professionals specializing in all facets of management.

When officers of the Supply Corps are assigned duty on staffs, in joint service commands, Defense Department positions, aboard ship or at shore installations which are not under the management control of Admiral Boundy's Bureau of Supplies and Accounts, their responsibility is to their Commanding Officer. They do not report to the Bureau of Supplies and Accounts as a technical bureau. Hence, each Supply Corps officer brings to his local command a wealth of business training and experience which will serve that command, the Navy and the Nation.

Today, the Supply Corps has approximately 5000 officers on active duty. They work the Navy System afloat and ashore, along with some 40,000 civilians who serve in supply jobs ranging from top specialists in inventory management, merchandising, transportation, petroleum, or nutrition, to the clerks and warehousemen at supply installations and stevedores on the docks.

The Navy's huge supply volume is handled through 276 shore outlets, including supply departments of air stations, naval stations, shipyards and ordnance plants.

In addition there are five naval supply centers, ten naval supply depots and thirteen inventory control points specializing in management, handling and distribution of commodities.

In the fleet, each ship is a supply outlet to meet the needs of its customers—be they various departments aboard the ship or other ships which must be served.

The Navy Supply System is one of the nation's most important markets for American business. In *Fiscal Year 1959 the Navy spent \$7½ billion for procurement, almost the combined annual purchases of General Motors, General Electric and United States Steel*. Of this amount, \$2½ billion was spent by 20 field purchasing activities of the Bureau of Supplies and Accounts.

The basic objective of the Navy Supply System is to provide the Fleet with required supply support at minimum cost. For Fleet readiness the Supply System depends on American industry and welcomes the opportunity to join with business men in supporting our Nation's Power for Peace.

ONM Procurement

Here is some recent news from the Office of Naval Material that can affect you if you are engaged in Navy contracting either as a seller or a member of the Naval Establishment.

1. CHANGE OF RULES IN SYNOPSISIZING PROCUREMENTS

Policies and instructions for the publication of proposed procurements in the Department of Commerce Synopsis have been completely revised. They are contained in a new Part 10 of ASPR Section I, included in ASPR Revision 52. This Revision becomes mandatory for use on 1 July 1960. Publicity will be required on a great many more procurement actions than has previously been the case, with particular emphasis on negotiated procurement. Aimed at obtaining more competition in negotiated procurement, the increased publicity should help eradicate the commonly held impression that secrecy surrounds this type of procurement. Specifically, the following categories of procurements will no longer be excluded from the publicity requirement:

- a. *Research and development, unless specific background knowledge or unusual scientific or technical equipment is a prerequisite to performance;*
- b. *Studies and surveys, unless they are of a scientific or technical nature;*
- c. *The blanket category "sole source procurement"; and*
- d. *Procurements where competition is known to be limited because of patents, copyrights, or secret processes, except where such data is limited to a single producer.*

Also eliminated was a "catch-all" exemption for cases where circumstances clearly preclude any benefit from publicity. Instead, the new Part spells out 17 exceptions to the Synopsis requirement, most of them tied in with specific negotiation authorities. Still excepted are procurements which must be made so quickly that publication would serve no useful pur-

pose, but these have been defined as procurements with less than 15 calendar days to the date for receipt of bids or proposals. The new Part 10 also provides for advance publicity of the Government's interest in a specific field of research and development and for encouraging prime contractors to publicize subcontracting opportunities in the Synopsis.

2. NEW MANUAL FOR SOURCE INSPECTION AND ADMINISTRATION OF NAVY PROCUREMENT

The new Manual for Source Inspection and Administration of Navy Procurement, superseding the General Specifications for Inspection of Material, will be published as Appendix A to the NPD. It will soon be distributed as a part of NPD Revision 8. Of interest primarily to the Material Inspection Service, the Manual sets forth more clearly and concisely the obligations, responsibilities, and procedures for source inspection and administration of contracts. To purchasing personnel it will mean little more than that it must be incorporated by reference in purchase documents in lieu of the General Specifications (and NPD 7-104.57 is being changed accordingly). Under paragraph 3(b) of the General Specifications, the Inspector may authorize a contractor to follow the Manual if the contractor elects to do so. Because of this provision, existing contracts normally will not be modified to substitute the new Manual for the General Specifications. Arrangements have been made to furnish Inspectors with copies of the Manual for distribution to current and prospective contractors and subcontractors. Any commercial firms requesting copies should be directed to the local Inspector. The Manual is stocked at NSD, Philadelphia as Navy Procurement Directives (NAVEXOS) P-1034), Appendix A.



Navy Supply Profiles

BOUNDY

REAR ADMIRAL JAMES W. BOUNDY

Chief of Bureau of Supplies and Accounts

ADAMIRAL BOUNDY is one of the few men in the Navy's top echelon who didn't go to Annapolis. The University of Washington is his alma mater. He got his degree in Business Administration but he grew up in the Pudget Sound area and the sea always has been in his blood.

First thing he did upon college graduation was to join the Navy. As a supply corps lieutenant, he was aboard the cargo ship POLLUX during the war when it foundered in heavy seas. Disregarding personal safety, he attempted to run a line ashore, swimming through icy and turbulent waters. This act won for him a Commendation from the Commander In Chief of the Atlantic Fleet. Not long after that he was chosen to serve as Supply Officer on the staff of the Commander Air Force in the Pacific. Subsequent assignments saw him climbing up the ladder, Assistant Chief of Staff for Material Logistics, Supply Officer of the Naval Gun Factory, member of the Joint Logistics Plans Group, Joint Chiefs of Staff.

Admiral Boundy has the distinction of having been one of the youngest naval officers ever to be promoted to Commodore—he was only 38 at the time.

Married to the former Louise Smith of Seattle and the father of two children, Marilyn and Richard, the admiral has two hobbies:

One is visiting Seattle whenever he can. He is still interested in his hometown's civic affairs, remains one of the town's most ardent boosters, will drop practically anything to take a scan at a Seattle paper. He has a brother, Charles, who is also a supply corps officer and is on the staff of the Western Sea Frontier in San Francisco.

The admiral's other hobby is sailing. As Chief of BuSandA and paymaster general of the Navy, he has



had little time to indulge in this sport but while in Philadelphia, as commanding officer of the general stores supply office, he built his own boat—a 20-foot sailing craft he named "Boundless."

Few visitors ever leave the admiral's office without being impressed by his quick, factual mind, the way he grasps details so promptly and incisively. One business man, after a 45-minute call on the admiral, came away murmuring: "You know, I believe that fellow knows more about my business now than I do . . ."

REAR ADMIRAL LELAND P. KIMBALL, JR.

Deputy Chief, BuSandA

THERE'S A RUNNING argument in the Leland P. Kimball Jr. family as to whether it's the admiral or Mrs. K. who does the best outdoor steak cooking. The fact of the matter is though that the admiral prefers fish dishes anyway.

He's a Mississippian by birth, homeporting at Corinth, but he attended grade schools in Chicago, Cincinnati and Baltimore. Wound up marrying Helen Doroth Werner of Baltimore, and they have two children now, Dorothy Lee, who is training to be a nurse at Johns Hopkins, and Leland III, a schoolboy.

The P. in the admiral's name stands for Porter but everyone calls him Lee. His dad was a Baltimore & Ohio Railway building engineer, which accounts for Admiral Kimball having moved around quite a bit as a boy.

If he can't figure a way to get out of it, the admiral mows the lawn of his Alexandria, Va., home but a lawn he much prefers to be on is at the Army-Navy Country Club, with his favorite No. 5 iron in hand.

The admiral has a breezy, outgoing personality, is easy to talk and get along with. *Could very well be the next head of BuSandA.*



KIMBALL



MESSENHEIMER



LONG

CAPTAIN CLIFFORD A. MESSENHEIMER

BuSandA Chief of Research & Development

YOU'D HAVE TO SAY that Capt. Messenheimer is wedded to Faith.

That's his wife's maiden name, Charlotte Faith. She's originally from Philadelphia, he's from Lawrence, Kans. They make their home now in Alexandria, Va. There are no children.

Capt. Messenheimer was on the Naval Academy track team as a midshipman, now spends his time chasing zinnias. At least, if he hears there's some of these flowers around and about somewhere it is hard for him to resist going and having a look. While stationed in Memphis, some blaze zinnias he grew won first place at a flower show.

He's got quite a green thumb when it comes to growing sweet corn and tomatoes and such as that too. Something else he also likes to putter with outdoors too is cookout barbecue. He'd like to get started gardening in his Alexandria home and is doing some R&D studies on his own on how to get rid of the pesky squirrels around there.

His dad was a University of Kansas professor. Cliff . . . as most everyone calls him . . . attended the U. of K. two years, decided the sea and not the dust bowl was for him, took off for the Naval Academy. He served in the Pacific during World War II, was awarded a letter of Commendation for service aboard the PORTLAND as a supply officer.

He has a knack for quietly getting along with others, was a member of an important mission to Turkey a few years back.

He's a member of the Army-Navy Country Club and is fond of bourbon Old Fashions.

REAR ADMIRAL THOMAS A. LONG

BuSandA Chief of Transportation

ADMIRAL LONG proudly calls himself a pomologist. In somewhat more simple language, it means he goes in for growing fruit trees. He has a small ranch-type place in the Synnyvale, Calif., area where he raises plums, persimmons, pears and the like.

The admiral is a wavy-haired, handsome-type guy, looks sort of like a younger edition of Raymond Mas-

sey. As a matter of fact, in his Naval Academy days he was author of a Musical Club show, but has been too busy since his full-fledged days to have much more to do with music than being piped aboard a ship.

The admiral is a native of Jersey, Ohio, his dad was an auto dealer. After serving as a line officer aboard the CONCORD, Admiral Long went to the Navy's Finance & Supply school in Philadelphia. Was logistic officer on Staff of Commander Services Squadron in Korean war theater and was awarded the Bronze Star for his "painstaking care and sound judgment in planning."

He is pretty good when it comes to planning backyard cookouts too, usually does the charcoal steaking for wife, the former Beth Thraillkill of Swayzee, Ind., and five children, Tom Jr., Michael, Patricia, Dan and Jeffrey. Tom Jr. is an ensign now.

Though he misses his California fruit trees, Admiral Long keeps his "hand in" by doing a little gardening around the Virginia home he occupies while on Washington duty. When he can, he likes to relax in hammock with a naval background book and a dish of rice curry by his side.

REAR ADMIRAL AUBREY J. BOURGEOIS

BuSandA Inspector General

THE ADMIRAL SAYS he doesn't know whether it was the French or English that chased his folks out of France and into Louisiana 150 years ago.

Anyway, there's no doubt Admiral Bourgeois, who spells his name just like the French word for the upper "middle-class" which is used in the most contemptuous sort of way by the communists, has one of the most unusual nomenclatures in the Navy.

Although very much an American by birth (hometown: Paulina, La.), the admiral sports a trim continental-type mustache, the trace of an accent and a wry Gallic sense of humor.

He was stationed at Kodiak, Alaska, when the Japanese attacked Pearl Harbor and he was designated evacuation officer of Kodiak, with the responsibility of removing to safety all dependents in that area. Later, he became Supply and Accounting Officer for the Naval Air Station at Pearl Harbor.

The admiral has three children: Aubrey Jr., Suzanne and Judith. He maintains a home in a fashion-



BOURGEOIS



WEINTRAUB



GOLDBERG

able northwest section of Washington and likes to look after the grounds himself, doing the raking, seeding, etc.

He goes in for reading biographies, is perhaps a bit of a disappointment to gourmet-type individuals who are aware of his French background.

He doesn't care particularly for champagne or burgundy, sticks pretty much to martinis.

While he proudly states that the way his wife (the former Marguerite Heuss of Lake Stevens, Wash.) roasts a chicken "pops the buttons off my vest," he confides that his favorite dish is really just plain pepper pot soup—"the kind that *Campbell* puts up."

CAPTAIN PAUL L. WEINTRAUB, JR.

BuSanda Chief of Purchasing

CAPTAIN WEINTRAUB'S WIFE, Jeanette, likes to make mention about their "antiques." The captain, with his down-to-earth Navy appraisal mind, simply refers to the things around the house as "Grand Rapids stuff."

If something of a proprietary note enters the captain's voice, it's justified. He's a great guy for reupholstering and refurbishing the house hold furniture.

The captain's from Philadelphia, married a hometown girl, Jeanette Hoffman. They have a couple of sons, Paul III and John. It doesn't look like Paul, a student at the University of Washington, is going to get into the Navy, poor eyesight, but 11-year-old John is practically a submariner now, watching all the *Silent Service* TV shows and absorbing all the books he can find on the subject.

The captain's reading habits are a little broader. In fact, he's something of a paperback fiend, can hardly walk out of a drugstore without a book under his arm, usually a western or mystery or maybe something like John O'Hara's *Across the Terrace*, which he is currently reading.

Capt. Weintraub was in the thick of things in the war, was on the *POLLUX* when it went down and on the *RANDOLPH* when it was kamikazed by a Jap plane. He also participated in tough Iwo Jima and Okinawa campaigns, wound up with the Bronze Star Medal with Combat V.

The captain has three favorite down-to-earth repasts: Corn beef hash, chili, bourbon.

CAPTAIN HERSCHEL J. GOLDBERG

BuSanda Chief of Supply Management

BIGGEST DISAPPOINTMENT that "Hirsh," as everyone calls Capt. Goldberg, has had since arriving on the Washington scene is that he can't find suitable East Indies currie. This is strictly a Navy-acquired habit though, since the captain originates from no more an exotic place than Highland, Kans.

His reputation for "level-headedness" is demonstrated by the fact that when he can't get East Indies currie he settles for any kind of spicy-type meats and lets it go at that. He's sort of strange about his drinking habits, being partial both to milk and scotch, depending on mood and occasion.

Captain Goldberg, whose had Navy supply-type duty in off-beat places ranging from Bora Bora in the Society Islands to Nouema in New Caledonia, also went to another unlikely place, at least for a Navy man—Harvard. An Annapolis man, he received a Master of Business Administration degree there.

Married to the former Helen Goldstein of Joplin, Mo., he has two sons, Michael and Alan. Mike goes to George Washington college, Alan attends high school.

The captain is quite a baseball and football fan and can hold his own discussing Mickey Mantle, Harm Killbrew, Johnny Unitas and the like. He can also give a pretty fair account of himself at the bridge table.

Captain Goldberg has held down some important posts, Director of Policy Coordination Division of BuSanda, Logistic Planning Officer for NATO, among others. Goldberg is slated to become a rear admiral before long.

CAPTAIN JACK G. DEAN

BuSanda Director of Planning

THERE ARE HI-FI FANS and hi-fi fans but Captain Dean is probably in a class of his own.

He does his own hi-fi wiring, every inch of it, and he has every room in his suburban (Cheverly, Md.) home wired for hi-fi sound.

He boasts as complete an assortment of electronic gadgetry as you'll probably find outside of any shop.



DEAN



HURD



FOWLER

A native of Albion, Mich., Capt. Dean attended Albion College, then went to work as a draftsman, estimator and cost accountant, then became connected with a mid-western chain store organization as Assistant to the President.

Joined the Navy as World War II loomed. He was with the War Plans Division, established the Salvage Conservation Section. Then became the liaison man for the Navy and a number of Congressional Committees. In connection with his materiel conservation work visited most of the Naval institutions around the world during the war.

He has two children, Barbara Ann and John, who is a racing car enthusiast and, as a matter of fact, repairs them for a living.

Inclined to be something of a joiner, he's a member of Sigma Nu, Rotary, the National Retail Dry Goods Assn., Michigan Retail Institution and southern Michigan Advertising Round Table.

The captain not only goes in for hi-fi but the following:

- Charcoal steaks.
- Scotch.
- Golf.
- Condensed versions of popular books.

WALTER J. HURD

BuSanda Director of Industrial Relations

WALT HURD was born in Denver, grew up in southern California, married Elmira Brock of Dayton, Ohio, lives in Alexandria, Va., now, but considers San Francisco his home.

He attended the University of California, has been in his present type work for a decade and a half.

He's an avid newspaper reader, keeping up with world facts is practically a passion with him, he wouldn't "feel right" if he had to go through a day without his *N. Y. Times*. Also is likely to thumb through a number of other journals too in the course of a day.

He also watches TV news analysis programs whenever he can.

Mr. Hurd doesn't always just sit around and read newspapers or watch TV news programs though. He's an excellent bowler and often bowls on some BuSanda team or other.

He's a "meat and potatoes" man, he says, except he doesn't eat potatoes any more. Well, he tries not to have too much to do with the starchy stuff anyway.

Once upon a time people used to call him "Red" but time has worked its erosive way and it would hardly be apropos now.

HERMAN G. FOWLER

BuSanda Small Business Specialist

HERMAN G. (for George) Fowler was born 80 years too late.

While his position requires that he keeps very much on his toes about current matters, and he does a fine job, his thoughts wistfully stray to another time and era.

He's a dyed-in-the-wool Civil War buff, lives in a house in Virginia that's in the midst of some of that conflict's most historic moments. Herm, as he's generally called, is never happier than when he's strolling along some Civil War battlefield or other, taking in this monument or that. He belongs to the Civil War Round Table and meets with others once a month to discuss that bitter struggle of a century ago.

A pleasant-natured, listening-type fellow, Herm's originally from Canastota, N. Y., attended the University of Syracuse. His dad was a jeweler. He married Virginia Lee Simpson of Burke, Va., and they have two girls, Virginia Lee and Suzanne.

He's quite a do-it-yourself guy, cleared two acres of land at his Virginia home all by himself with his trusty axe. Probably overdid it though. He's got an upset sacroiliac now.

He's had to give up, at least for the time being, his favorite sport, bowling, but he can do something else now he likes very much also: Gardening—two acres of it. So Herm Fowler is taking the whole thing philosophically. ■

New Pentagon signs:

The Remarkable Thing About College Reunions Is That Your Old Classmates Have Gotten So Fat And Bald That They Hardly Recognize You.

You Are Young Only Once. After That, You Just Think You Are.



Supply System Materials

No. of Items	Type of Material	Inventory Value
5,800	Clothing & Textiles	\$ 43,239,000
99,100	General Material	379,535,000
499,700	Repair Parts	1,206,687,000
15,800	Subsistence	73,605,000
15,100	Medical	304,346,000
168,700	Electronics	205,083,000
800	Fuel	145,400,000
485,000	Aeronautical Material	2,491,568,000

Area Buying

THE ACTIVITIES listed below purchase general-use items, as well as items of a technical nature. In this way they fulfill their own special requirements and those of other naval activities in their area. Among the Area Buying activities are the four Navy Purchasing Offices, (NPO's). They prepare and execute certain types of contracts for many naval activities in the area. Navy Purchasing Offices prepare contracts for services such as stevedoring, tug and barge pilotage, as well as purchasing items for direct delivery to the Fleet.

Supporting the Navy's shore establishment, NPO's prepare contracts and buy for many Naval activities in their area. They contract for and purchase consumables such as certain items of fresh provisions and ships food stock. NPO's are strategically located in large market centers and in areas where there is a great deal of Fleet activity.

BOSTON NAVAL SHIPYARD (SUPPLY DEPARTMENT)

Boston 29, Mass.

Tel: CHARlestown 2-1400

Commanding Officer:

CAPT W. G. Blasdel, SC, USN.....Ext. 2201

Executive Officer:

CDR F. W. Smith, SC, USN..... 2201

Director, Purchase Division:

LCDR N. Adrian, SC, USN..... 2206

Small Business Specialist: Mr. A. J. Dolan.... 2206

Technical Information Officer:

CDR R. W. Parisian..... 372

Major Commodities Purchased: Electronic Equipment; air conditioning equipment; alloy steel; pipe and tubing; subsistence; ships' stores resale items; ship and marine equipment.

Miscellaneous Purchasing Information: In addition to a wide range of standard or semistandard commercial material, the Shipyard purchases various items of special technical design and manufacture required for the conversion and modernization of Naval vessels.

US NAVY PURCHASING OFFICE—BROOKLYN

29th Street & Third Avenue,

Brooklyn 32, N.Y.

Tel: STerling 8-5000

Commanding Officer:

CAPT William P. Watts, SC, USN.....Ext. 630

Executive Officer:

CDR Julian W. McClure, SC, USN.....

632

Purchase Division Officer:

LCDR Wm. J. Podrouzek, SC, USN.....

624

Small Business Specialist: Mr. Joseph Riemer

804

Major Commodities Purchased:

Single Service Assignment: Rope, cordage, twine, fibers; pest control items, ecclesiastical equipment and supplies.

Items procured on a Regular Basis for the Navy: Books and Periodicals; wiping cloths; Training Devices.

Miscellaneous Purchasing Information: NPONY also contracts for research and development requirements; purchases various non-standard equipment and components for ship construction and repair; also various service type contracts required by activities in the Third Naval District.

CHARLESTON NAVAL SHIPYARD

US Naval Base,
Charleston, S. C.

Tel: SHerwood 7-4171

Supply Officer:

CAPT E. D. Vestel, Jr., SC, USN.....Ext. 2008

Executive Officer:

CDR F. M. Detwiler, SC, USN..... 2108

Purchase Superintendent:

LCDR W. E. Johnston, SC, USN..... 2914

Small Business Specialist: W. H. Heissenbuttel 2107

Major Commodities Purchased: General stores type materials, and equipment for repair and conversion of Naval vessels.

Miscellaneous Purchasing Information: This Shipyard is authorized to make purchases and contracts for supplies and services, without regard to monetary limitations. Approximately 35,000 purchase actions are accomplished annually, with an approximate dollar value of \$6,000,000. About 98% of the purchases are less than \$2500 in value.

NAVAL SUPPLY DEPOT, GREAT LAKES

Bldg. 3200, Great Lakes, Illinois Tel: DELta 6-3500

Commanding Officer:

CAPT C. K. Phillips, SC, USN.....Ext. 8201-02

Executive Officer:

CDR S. A. Taffinder, SC, USN..... 8201-02

Director, Purchase Division:

LCDR A. H. Rampey, SC, USN..... 8368

Small Business Specialist:

Miss S. Beth Newsom..... 8225

Technical Information Officer:

Miss J. Hobjer..... 8316

Major Commodities Purchased: Torpedo Components, Commissary Dairy Products, General Housekeeping items.

Miscellaneous Purchasing Information: The Naval Supply Depot, Great Lakes, is a major field purchasing activity of the Bureau of Supplies and Accounts and is responsible for area buying for all activities of the Ninth Naval District and as such has unlimited purchase authority.

**US NAVY PURCHASING OFFICE—LONDON****8 Rathbone Place,
London, W.1, England****Tel: Langham 8812**

Commanding Officer: CAPT C. R. Eagle, Jr.....Ext. 16

Director, Purchase Division:

LCDR W. F. Hawley..... 11

Technical Information Officer:

LCDR S. J. Evans..... 12

Major Commodities Purchased: Electrical equipment; laboratory apparatus, equipment and supplies; ordnance and related equipment; office equipment and supplies; radio and radar equipment; stevedoring, packing and drayage of household goods services; resale merchandise; sheet metal products—floats, buoys, lockers; shipboard machinery and spare parts; sonar equipment; technical books and periodicals.

Miscellaneous Purchasing Information: For detailed purchasing information, ask for the booklet, "How to Sell to the United States Armed Forces in Europe," published by the Headquarters, United States European Command, Camp Des Loges, St. Germaine-en-Laye (S & O), France. Booklet is available at no charge.

US NAVY PURCHASING OFFICE—LOS ANGELES**929 South Broadway,
Los Angeles 15, Calif.****Tel. Richmond 9-4711**

Officer in Charge:

CAPT C. W. Peckham, SC, USN.....Ext. 1466

Asst. Officer in Charge:

CDR W. H. Meyer, Jr., SC, USN..... 1467

Director, Purchase Division:

LCDR R. C. Heitmeyer, SC, USN..... 1451

Small Business Specialist:

Mr. Bertram A. Friedman..... 1430

Technical Information Officer:

Mr. Morgan B. Rogers..... 1467

Major Commodities Purchased: Items of technical nature and supplies and services for research and development for Naval activities in the 11th Naval District.

Miscellaneous Purchasing Information: Activities within the 11th Naval District handle small purchases under \$2500.

US NAVAL SUPPLY DEPOT—NEWPORT**Newport, R. I.****Tel: VI 1-3266**

Commanding Officer:

CAPT Thomas A. Brown.....VI 1-3037

Executive Officer: Commander R. M. Jones.....VI 1-3038

Director, Purchase Division:

CDR Harvey W. Thomson.....VI 1-3266

Small Business Specialist:

Miss Lillian L. Whitty.....VI 1-3266

Technical Information Officer:

LT William E. Turcotte.....VI 1-2574

Major Commodities Purchased: Electrical and electronic equipment components; equipment and special parts for research and development; maintenance and repair shop equipment; construction and building

materials; equipment for overseas bases; subsistence items.

Miscellaneous Purchasing Information: Total Documents processed: 35,762, Dollar value: \$8,250,465.

NAVAL SUPPLY CENTER—NORFOLK**Naval Supply Center,
Norfolk 11, Virginia****Tel: MADison 2-8211**

Commanding Officer: RADM Hugh

C. Haynsworth, Jr., SC, USN.....Ext. 2198

Executive Officer:

CAPT W. G. Bacon, SC, USN..... 2027

Director, Purchase Division:

CDR G. S. Young, SC, USN..... 2554

Small Business Specialist:

Miss E. M. Roberts..... 3051

Technical Information Officer: Jack Gonzales.. 2585

Major Commodities Purchased: (No single commodity assigned) Purchase equipment, repair parts, instruments and consumable supplies.

Miscellaneous Purchasing Information: Centralized area buying activity for Atlantic Fleet units, overseas bases, and shore activities in the Fifth Naval District.

NAVAL SUPPLY CENTER—OAKLAND**Oakland 4, California****Tel: TWIn Oaks 3-4224**

Commanding Officer:

RADM R. J. Arnold, SC, USN.....Ext. 201

Executive Officer: CAPT E. K. Auerbach..... 202

Director, Purchase Division:

CDR B. L. Harrington, SC, USN..... 691

Small Business Specialist:

Mr. G. R. Kinnear..... 631

Technical Information Officer:

Mr. L. B. Cooney..... 468

US NAVAL SUPPLY CENTER—PEARL HARBOR**Pearl Harbor, Hawaii****Tel: (PH Exchange) 4711**

Commanding Officer:

RADM T. L. Becknell, Jr., SC, USN..... 54161

Executive Officer:

CAPT W. L. Atkinson, Jr., SC, USN..... 54161

Purchasing Officer: LCDR J. B. Jones, SC, USN 53105

Small Business Specialist: Mr. T. H. Sunn..... 54156

Technical Information Officer:

CDR H. C. Milliren, SC, USN..... 58125

Major Commodities Purchased: Subsistence, Furniture and Furnishings (Primarily for Capehart Housing Construction); Ship Stores Items; Chemicals and Chemical Products; Automotive Equipment Components; Electrical and Electronic Equipment Components, and Office Supplies.

Miscellaneous Purchasing Information: 72% of total purchases were made from small business firms.

PHILADELPHIA NAVAL SHIPYARD**Foot of Broad Street,****Philadelphia 12, Pennsylvania Tel: HOward 5-1000**

Commanding Officer:

CAPT R. B. Fulton, USN.....Ext. 2318

AREA BUYING



Supply Officer:
CAPT R. C. Voils, SC, USN..... 2216
Director, Purchase Division:
LT J. A. Taylor, SC, USN..... 3510
Small Business Specialist:
Mr. C. B. Friel..... 2418
Technical Information Officer:
Mr. B. Lambert..... 3782
Major Commodities Purchased: Non-std. ships' equipment and machinery, non-std. shop equipment.

US NAVAL SUPPLY DEPOT—SEATTLE Pier 91, Seattle 99, Washington Tel: AT 3-5200

Commanding Officer:
CAPT E. D. Stanley, Jr., SC, USN.....Ext. 800
Executive Officer:
CAPT E. G. Rice, SC, USN..... 801
Director, Purchase Division:
LCDR E. E. Bramhall, SC, USN..... 421 - 422
Small Business Specialist:
LCDR E. E. Bramhall, SC, USN..... 421 - 422
Technical Information Officer:
LT F. G. Patterman, SC, USN..... 630
Major Commodities Purchased: General material and services other than technical, construction and repair, and research and development.

Miscellaneous Purchasing Information: The Purchase Department, U.S. Naval Supply Depot, Seattle, Washington, acts as the area purchasing activity for general material and services for the 13th and 17th Naval Districts. All purchases in excess of \$2500 for general material and services for Navy ships and activities in the Northwest and Alaska are made by this activity. Open-end contracts for bakery items, dairy products, ships' store stock, and miscellaneous material and services are awarded for use by Navy and Coast Guard ships in the North-

west and Alaska. Purchase support is rendered to the Commissary Stores at Whidbey Island, Washington, Kodiak and Adak, Alaska.

US NAVY PURCHASING OFFICE—WASHINGTON, D. C. Tempo "D" Building, 4th & Independence Ave., S. W., Washington 25, D. C. Tel: Liberty 5-6700

Commanding Officer:
CAPT C. A. Appleby, SC, USN.....Ext. 65141
Executive Officer:
CDR O. V. Wallgren, Jr., SC, USN..... 65141
Director, Purchase Division:
LCDR R. A. Spargo..... 66479
Small Business Specialist:
E. J. Elwood, Jr..... 61354
Technical Information Officer:
D. H. Saymour..... 61893
Major Commodities Purchased: Materials Handling equipment, Machine tools and industrial equipment, furniture, steel products.

US NAVAL SUPPLY DEPOT, Navy No. 3923— YOKOSUKA

Yokosuka, Japan Tel: 2198

Commanding Officer:
CAPT M. A. Peel, Jr., SC, USN..... 2153
Executive Officer:
CAPT E. Bloxom, SC, USN..... 2154
Director, Purchase Division:
CDR H. B. Jensen, SC, USN..... 2158
Technical Information Officer:
LCDR A. B. Crooks, SC, USN..... 2368
Major Commodities Purchased: Ships and Aircraft Repair Services; Resale Merchandise; Provisions; Misc. Services and Supplies.
Miscellaneous Purchasing Information: NSD Yokosuka does not purchase from sources in U.S. These requirements forwarded to NSC Oakland for purchase.

STATION SUPPORT

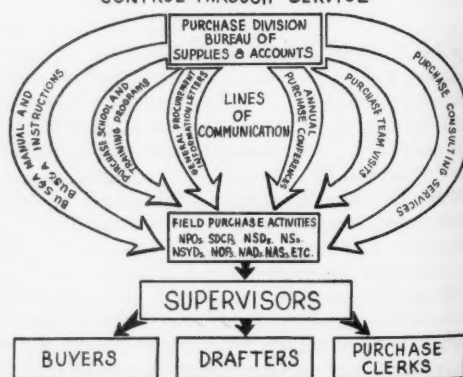
Station Support Buying

PURCHASING in the field to support their own local requirements is known as Station Support Buying in the Navy Supply System. The air station, ordnance plants, shipyards, ammunition depots and other support activities buy those materials which are not purchased centrally by the bureaus in Washington, by the SDCP's and by the Area Purchasing Offices.

Station Support Buying is concerned with materials which are not required in the daily support of the Fleet or which are not in recurring demand by the Fleet. Normally, station support purchases include materials required in the repair of vessels, research and development projects, raw materials, materials needed to support production, such as at ordnance and ammunition factories, and for certain items of plant maintenance.



MANAGEMENT & TECHNICAL PURCHASE CONTROL THROUGH SERVICE



DATAGRAM

AIR/SPACE DATA

NATIONAL OFFERS TO SUPPLEMENT MATS

National Airlines has offered to buy 5 Lockheed C-130B giant prop-jet air freighters to aid governments critical need for expanded military air cargo service. MATS does not have facilities now to cope with military needs. ///National/

CONTRACTS

NAA - \$4 $\frac{1}{2}$ million for design & dvlpmt of H-1 motor for SATURN.
Raytheon - \$6,937,000 for R & D on HAWK missile system.
ARDC to Cleveland Pneumatic - \$95,000 for Research to find appropriate landing gear for space craft. Navy - \$128 million for more A2F-1, W2F-1 and S2F-3 aircraft. ///DATA/

LONGER ARM FOR AIRPORTS

New radar is being evaluated by FAA. If accepted it will extend coverage out to 120 miles from air terminals. ///FAA/

X-15 ACCEPTED BY AF AND NASA

In a move marking the beginning of the Joint Research Flight Test Program to be conducted with rocket-powered aircraft by NASA with AF and Navy, the X-15 has been delivered by North American Aviation. ///DOD/

RE-ENTRY TESTS SUCCESSFUL AT NASA

Lab tests in which a small test model successfully underwent simulated entry at earth satellite speed gives hope that US may soon conquer heat problems of re-entry. ///NASA/

AF DECIDES ON SOLID ROCKET

AF has decided on dvlpmt of high-thrust rocket using solid fuels, a move which may provide the first important test of Presidential order limiting military activities in space and giving NASA prime responsibility in space exploration. ///AF/

COMMUNICATIONS/ELECTRONICS DATA

IRS TO PROCESS TAXES AUTOMATICALLY

Internal Revenue Service hopes to have entire tax processing program accomplished by electronic equipment within the next 10 years. Each taxpayer will have uniform and complete acct in one center, rather than filing in one district and paying in another. ///IRS/

CONTRACT

Stanford from Army - \$1 million for air defense system study.

BAUSCH & LOMB FILM PROTECTS SATELLITE ELECTRONICS

Coating of magnesium flouride and silicon monoxide on satellite electronics systems re-radiates harmful solar rays that would otherwise inhibit radio transmission or destroy it by melting soldered contacts. ///Bausch & Lomb/

AEC REVISES PROPOSALS PROCEDURES

Unsolicited proposals concerning new reactor concepts submitted to the Atomic Energy Commission will now be reviewed immediately rather than semi-annually. ///AEC/

NEW ARMY TEST FACILITY

The Army plans to construct a \$30 million electronic environmental test facility at Fort Huachuca, Ariz. ///DATA/

AEROJET TO BUILD NASA REACTOR

SNAP-8, nuclear power system for space craft, will provide electric power for super satellites and outer space vehicles. The vehicle for this system not yet announced. ///DATA/

CHECH CYCLO SOON TO SPIN

Cyclotron at Nuclear Research Institute outside Prague will soon spin alpha particles to 25 million volts, neutrons to $12\frac{1}{2}$ million electron volts. ///DATA/

ARMY PRODUCES DIAMONDS FOR ROCKETS

Production of synthetic diamonds for possible use in electronic systems of rockets and other devices where high temperatures are prevalent has been achieved by Army scientists at Fort Monmouth. ///Army/

GROUND SUPPORT DATA

REDSTONE CARRIES TV CAMERA

TV camera in REDSTONE enables ground commander to see target damage inflicted by missile, as camera falls away from warhead just prior to impact. ///DOD/

MARINES LOOK FOR 'COPTER

The Marine Corps is still engaged in tests aimed at coming up with a satisfactory one-man helicopter for reconnaissance, liason, artillery observation and wire laying. ///DATA/

NAVY TESTS 'COPTERS FOR MINE SWEEPS

Sikorsky Skycrane, trailing lightweight mine-sweeping gear, being tested in Florida. Special advantage is its invulnerability to mines themselves. ///DOD/

ARMY IMPROVES TEAR GAS

New breed tear gas developed by the British is now being produced by the Army for training purposes and as a war gas. Those who have tested it are rarely willing to try twice, so effective is this new gas. ///Army/

NEW ARMY DISTILLING UNIT

An all aluminum unit for the distillation of sea water is being dvlpd by US Army R & D. The design probably will result in a trailer-mounted unit, suitable for delivery by 'copter and capable of producing 125 gallons per hour of drinking water from the sea.

///News/

CONTRACT

Chrysler - \$12 million for 180 M-60 tanks.

LOGISTICS/MATERIALS DATA

LET IT RAIN . . .

New, experimental water-repellant for combat clothing dvlpd by Army Quartermaster Corps, has successfully withstood continuous one-inch per hr downpour for 7 days. Called "Quarpel", the new finish is oil resistant and vapor permeable; can be laundered or dry cleaned and still retain its qualities.

///Army/

LOW PRESSURE TIRE EASES PLANE LANDINGS

Tire, which upon landing, expels air to cushion impact energy, being dvlpd by Fairchild.

///Fairchild/

FIRST AIR SCOOTER PRODUCED

Prototype by Bell not yet in production. Speeds up to 25 mph on 12 hp motor. Scooter changes direction when operator leans to either side. Forward and backward motion accomplished by leaning machine in that direction.

///DATA/

SOVIET SPACE SUIT FULLY EQUIPPED

The Soviets have a new space suit made of insulating foam material. Its oxygen apparatus is located under a bulge of the same material and is an integral part of the suit. Twelve pockets include the tech equipment; a built-in phone for short-distance communication; a radiation measuring device; a searchlight; emergency food and drugs; a new type pistol with two cartridges, one with regular ammo, the other with flare cartridges.

///DATA/

FORD EMPLOYING LEVITATION FOR WEIGHTY TRANSPORT

Lifting heavy machinery at Ford plants made easy by placing steel levipads under machinery and feeding compressed air from air tanks. Lifted by cushion of compressed air, machines can easily be moved by one man. Idea under military study for handling of cargo.

///Industrial Research/

BELL DEVELOPS NON-TOXIC BATTERY

Bell Telephone's new-type battery for subs substitutes calcium for antimony and arsenic, thereby eliminating toxic gases, dangerous in this tightly enclosed atmosphere.

///BuShips/

LOOK OUT FOR THE SCOOP . . . WHAT SCO—

Dept of Commerce has issued a patent on auto bumper that scoops up pedestrians instead of running them down.

///Commerce/

POLICY COUNCIL

CHART, BUREAU OF SUPPLIES

RADM J. W. BOUNDY
Special Asst. & Aide
CDR C. V. Gardiner

RADM L. P. KIMBALL, JR.
Administrative Officer
Miss Hazel Stroup

DATAGRAF CHART-OF-THE-MONTH

The Headquarters of the Bureau of Supplies and Accounts is located at the Main Navy Building, 18th and Constitution Avenues, N. W., Washington 25, D. C.

When calling from outside the Department of Defense complex, dial OX and then your extension.

This chart shows phone numbers on the far right column, room numbers inboard to the left.

SMALL BUSINESS SPECIALIST

Mr. H. G. Fowler 0235MN 64680

DIRECTOR OF PLANNING

CAPT. J. G. DEAN	2002MN	63682
Director, Plans Coordination Div.		
CDR R. L. Ellis	2104MN	65834
Dir., Special Assistance Div.		
CDR J. L. Howard	2002AMN	64316
Dir., Ashore Activities Div.		
CDR A. L. Hopwood	2105MN	63894
Dir., Mobilization Material Res. Div.		
CDR L. F. Washburne, Jr.	2114MN	65883

DIR. OF MGMT. ENGINEERING

CAPT F. B. STEWART	2523AA	42862
Organization Div.		
Mr. F. Wolf	2529AA	41125
Program Div.		
Mr. R. C. Chase, Jr.	2533AA	41434
Survey Div.		
Mr. N. J. Kakalec	2535AA	41402
Methods & Standards Div.		
Mr. D. Markoff	2527AA	41538

DIR. OF ADMINISTRATIVE SERVICES

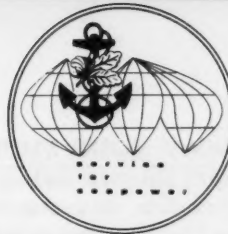
CAPT T. H. NEEL	1042AA	42992
Dir., Office Services Div.		
Mr. S. M. Manning	1028AA	42494
Dir., Publications Div.		
Mr. E. J. Fagan	1419AA	42217
Security Division		
Security Officer		
CAPT T. H. Neel	1042AA	42992
Director		
Mr. E. C. Cruse	1501AA	41960
Dir., Machine Records Div.		
Mr. W. L. Kalench	3305AA	41166

ASST. CHIEF FOR PURCHASING

CAPT P. L. WEINTRAUB, JR.	0235MN	62136
Dir., Purchase Operations Div.		
CDR W. R. Ormsbee	0225MN	65302
Dir., Purchase Planning Div.		
CDR T. J. James	0227MN	66578

ASST. CHIEF FOR SUPPLY MGMT.

CAPT H. J. GOLDBERG	0205MN	67457
Dir., Special Projects Div.		
CDR J. F. Nichols	0216MN	66715
Dir., Utilization & Disposal Div.		
CDR R. T. Power	2123MN	61859
Dir., Inventory Control Div.		
CAPT A. J. Fisher	0249MN	65776
Dir., Fleet Ballistic Missile		
Program Div.		
CAPT R. A. Williams	3221MB	63471
Dir., Fleet Operations Div.		
CAPT D. F. Logan	0226MN	64719
Dir., Stock Coordination Div.		
CAPT W. E. Frampton	3020AA	41014
Dir., Fuel Div., CDR J. J. Lynch	213NWP	2596
Dir., Subsistence Div.		
CAPT S. Boozer	213NWP	672



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OF SUPPLIES AND ACCOUNTS

CHIEF

0026MN 63411

0026MN 65266

DEPUTY CHIEF

0026MN 63412

0026MN 63413

INSPECTOR GENERAL SUPPLY CORPS

RADM A. J. BOURGEOIS 2042AA 41887

COUNSEL

Mr. William Sellman 2113MN 63467

SECRETARIAT

CDR C. V. Gardiner 0026MN 65266

TECH. INFO. DIV.

CAPT S. F. Zimet 0209MN 64109

DIRECTOR OF MILITARY ASSTNCE

CDR J. B. Warner 2303AA 42528

DIR. OF INDUSTRIAL RELATIONS

MR. W. J. HURD 1044AA 41536

Dir., Field Indus. Rel. Div.
Mr. J. A. Cirillo 1505AA 41715Dir., Bur. Civ. Personnel Div.
Mr. H. E. Finnegan 1050AA 42953

DIR. OF SUPPLY CORPS PERSONNEL

CAPT G. C. HEFFNER 2050AA 41942

Dir., Detail Div.
CDR S. H. Smith 2501AA 41621Dir., Reserve Div.
CDR H. L. Goodwin 2517AA 41758Dir., Training & Procurement Div.
CAPT R. W. Granston 2519AA 41925Dir., Bur. Mil Personnel Div.
Lt(JG) B. N. Jones 2513AA 41717Dir., Personnel Planning Div.
CDR D. A. Hempson 2053AA 41618

COMPTROLLER

CAPT R. W. CARTER 2147MN 62555

Dir., Statistics Div.
Mr. K. J. Adams 2139MN 61607Dir., Budgets & Reports Div.
CDR G. Grimsley 2150MN 61881Dir., Accounting Control Div.
Mr. C. A. Baldwin, Jr. 1129MN 64309Dir., Stock Finance Div.
CDR E. J. Hanson 1131MN 67305ASST. CHIEF FOR RESEARCH &
DEVELOPMENT

CAPT C. MESSENHEIMER 2123MN 67833

Dir., Equipment & Materials
Research Div.

CDR W. W. Gay, Jr. 2434AA 42167

Dir., Afloat Facilities Div.
CDR G. W. Crawford 0230MN 62382Dir., Advanced Logistics
Research Div.

CDR J. C. Busby 2124MN 67694

Dir., System Research Div.
CDR A. A. Shawkey 2433AA 42114

ASST. CHIEF FOR TRANSPORTATION

RADM T. A. LONG 1635AA 41672

Dir., Special Projects & Plans Div.
CDR A. W. Swan 1631AA 42567Dir., Land & Air Transp. Div.
CDR G. C. Nelson 1618AA 41655Dir., Household Goods Div.
CDR L. W. Roberts 1636AA 41518Dir., Ocean Trans. & Terminal Div.
CDR J. S. Huntington 1623AA 41404Dir., Shore Establishment Div.
CDR W. A. Mann 2401AA 41320Dir., Storage Div.
Mr. H. W. Tolliver 2402AA 41904

THROW AWAY YOUR SHIRT

If experiments being conducted by Scott Paper Co. and John B. Stetson Co. are successful, a paper weave may be dvlpd that will make throw-away clothing practical. Designated at first for institutional use, it may later be used for general consumption.

///Scott/

PLASTIC PASTE SAVES MOLDING TIME

Plastic paste material dvlpd by Detroit manufacturer used in place of mahogany for auto die models. Reduces by weeks, time required for conventional auto tooling programs.

///DATA/

SIMPLE PRECAUTION PREVENTS SLIPPING ACCIDENTS

Small blobs of emery and epon resin mixture applied to junctures of steel grids used for gratings provides traction, needed esp. in wet weather.

///DATA/

MEDICINE CHEST SAFEGUARDED AGAINST CHILDREN

New medicine chest is equipped with panel of 5 buttons, 2 of which must be pressed simultaneously to open door. Safety feature protects young children, although chest can still be opened with one hand by adults.

///DATA/

PEACEFUL INVASION

The Soviet car Moskviche is going to invade US market. 10,000 of these four-cylinder 45 hp cars are expected in this country within the next two years. Price tag: \$1500.

///Time/

MISSILE DATA

BELL GETS RIGHTS TO FRENCH MISSILES

Nord-Aviation, S.A. of France has signed US manufacturing rights to Bell a/c for supersonic CT-41 and subsonic CT-20 target missiles. Hawke-Siddely are the British distributors for CT-41.

///Bell/

ARMY AND MARINE CORPS ACTIVATING MISSILE SUPPORT

Two LACROSSE guided missile battalions will be sent to Europe by April for the Army. Marine Corps will activate its first HAWK missile battalion 2 May, at 29 Palms, Calif.

///DOD/

WHITE SANDS BOASTS POWERFUL MISSILE TRACKER

The largest telescope plus camera in the free world, it can see spots on a golf ball at 5 miles, get a clear image of a missile up to 100,000 ft. Just installed at White Sands.

///DOD/

POLARIS CLEARING HOUSE NOW OPERATING

The new site in Charleston receives final missile components from contractors for final checkout and loading onto the nuclear powered sub fleet.

///DATA/

CONTRACT

Chrysler - \$9,234,763 for JUPITER missile system.

AIRCRAFT AND MISSILE PARTS PROCUREMENT SIMPLIFIED

DOD has adopted a standardization system for aircraft and missile parts. This will permit manufacturers to obtain parts easily. Estimated savings from this new system run as high as \$1 billion per year for Dept of Defense. ///AIA/

CODIT REDUCES, TRANSMITS MISSILE INFORMATION

New system dvlpd by RCA sends only pertinent information received from missiles to radar and data analysis posts throughout the world. In a matter of seconds, needless data is eliminated, simplifying missile tracking procedure. ///ARDC/

CONTRACTS

Sperry Rand, Utah - \$5,333,673 for R & D on SERGEANT missile system. Western Electric - \$10,957,000 for engineering on NIKE HERCULES; in addition to recent, earlier contract for \$20,259,484. Martin Co. snagged \$12,687,000 worth of contracts for LACROSSE missile. Temco Aircraft Co. - \$25 million for continued dvlpmnt and test of CORVUS for Navy.

FIRST AID FOR MINUTEMAN

AF will spend \$11 million for assembly and repair station at Hill, Utah. This base for Boeing's MINUTEMAN will be completed in 15 months. ///AF/

NAVY DOLPHIN FIRED

Dummy test vehicle, DOLPHIN, which sits in for POLARIS in tests, has been fired from USS GEORGE WASHINGTON. Object of test was to train crew for eventual firing of armed POLARIS. ///DOD/

ITT BOASTS INFRARED TRACKING EYE

International Tel & Tel has infrared search track set which, when mounted on interceptor, precisely tracks and predicts flight paths of enemy planes so that interceptor weapon can be fired. A passive device, it transmits no signals to betray its presence. Is supplementary to radar for defense work. ///ARDC/

DEADLINE DATA

TARTAR AND TERRIER SYSTEMS BOAST NEW GENERATOR

New solid propellant gas generator, the MK-2, dvlpd sufficient hp to generate electrical power to drive hydraulic system of these missiles. Secret is a boost disc of fast burning propellant which is cemented to the starting end of main propellant charge. Disc provides burst of power needed to start turbines. ///Navy/

NAVY ACCEPTS NEW CATAPULT

The Navy has accepted one new steam catapult design and has begun tests on another. The new catapult, twice as powerful as any now launching heavy jet bombers, is the C-14. Under test is the TC-13, which is similar to steam catapults now in use, only has greater pressure capabilities. ///Navy Times/

NAVY CONTRACT LAW — SECOND EDITION

All that a contractor needs to know regarding competitive bidding and negotiation, types of contracts, etc. is published in Doing Business with the Government, a 1000 pp volume available from the Gov't Printing Office. Price \$8. ///DOD/

FAA CREATES NEW BUREAU

Bureau of Aviation Medicine replaces the Office of the Civil Air Surgeon. This elevation to bureau status points up the growing importance of aviation medicine. ///FAA/

APPLY FOR AEC PATENTS

Technical info on unclassified AEC patents is readily available for royalty-free use. How to Apply? Write for booklet: USAEC Patents Available for Licensing, Technical Information Service Extension, P.O. Box 62, Oak Ridge, Tenn. ///AEC/

PLAN UNDERWAY TO DETECT NEW ELEMENTS

26 lbs. of plutonium have been placed in AEC's Savannah River reactor — the beginning of 6 yr program to produce 1/30,000 ounce of rare element, californium, No. 98 on Mendel's table. Literally priceless, this will be used in race against Russia for discovery of new element, No. 103. ///DATA/

DOD ANNOUNCES FLU VACCINE IMPROVEMENT

The new discovery permits more rapid production of vaccine, permitting widespread distribution and immunization. ///DOD/

HOT WIRE DATA

PROJECT GNOME, investigating the feasibility of using nuclear explosives for peaceful purposes, will be situated near Carlsbad, N.M. . . . Republic to gain strong minority interest in Fokker, Object: bigger slice of the European market. . . . MERCURY astronauts have completed their weightlessness tests having endured up to one minute of zero gravity per test . . . ARDC is compiling an index of scientists and engineers for greater efficiency on industry and gov't projects . . . Armament of THOR missile bases in England is complete upon delivery of last of 60 THOR-IRBM's from Douglas A/C . . . Hiller A/C producing independent kit series to up-grade present 12E model 'copters . . . RCA to build BMEWS station in Yorkshire, England . . . BOMARC B missile program eliminated to direct more funds to MIDAS, BMEWS, ATLAS, and MINUTEMAN . . . ARDC conducting studies for space craft landing gear for unexplored terrain . . . Dept. of Agriculture will soon set up a pilot plant for production of instant sweet potatoes . . . Army has initiated 6 yr, \$5 million program to test use of irradiation as food preservative, prolonging the life of shelf food . . . AF's MIDAS infrared early warning satellite has been put on urgency list by DOD.

**Annapolis**
US NAVAL ACADEMY, ANNAPOLIS, MARYLAND

Commanding Officer:

RADM C. L. Melson, USN

Tel: COLonial 3-2611

Dial "0"

Supply Officer:

CAPT J. Burkhardt, Jr., SC, USN.....Ext. 601

Director, Purchase Division:

CDR H. W. Burnett, Jr., SC, USN..... 526

Small Business Specialist: Mr. John Peel..... 739

Major Commodities Purchased: Test and Research materials and equipment for U.S. Naval Engineering Experiment Station, boat supplies for small craft facility, and maintenance and operating supplies for U.S. Naval Academy.

Atlantic Reserve**COMMANDER, TEXAS GROUP, ATLANTIC RESERVE****FLEET, 91 Front Street,****Orange, Texas**

Tel: TU 3-4311

Commanding Officer:

CAPT R. R. Sampson.....Ext. 265

Executive Officer: CDR P. A. Murray..... 242

Director, Purchase Division:

CDR A. R. Guthrie..... 297

also Supply and Fiscal Officer

Small Business Specialist:

LTJG A. P. Dayries..... 215

Major Commodities Purchased: Household goods services, perishable provisions, General Stores items, ships parts, electrical items, services such as typewriter repair, etc.

Avionics—Indianapolis**US NAVAL AVIONICS FACILITY****21st & Arlington,****Indianapolis 18, Indiana**

Tel: Fleetwood 7-8311

Commanding Officer:

CAPT Barton E. Day, USN.....Ext. 261

Executive Officer:

CDR George R. Fraser, USN..... 296

Supply Officer:

CDR Donald A. Needham, SC, USN..... 277

Small Business Specialist:

Marshall T. Wampler..... 583

Technical Information Officer:

LCDR John K. Mealy, USN..... 245

Major Commodities Purchased: Airborne fire control and electronic parts; assemblies; components and equipments.

Bermuda**US NAVAL STATION, BERMUDA****Navy No. 138, c/o FPO, New York, N.Y. Tel: 1-2173**

Commanding Officer:

CAPT H. P. Badger, USN.....Ext. 322

Executive Officer:

CDR C. P. Trumbull, USN..... 319

Director, Purchase Division:

LCDR Guy H. Sumrell, Jr., SC, USN—S&FO

Major Commodities Purchased: Provisions, Building

supplies and fixtures and other general purpose small items.

Miscellaneous Purchasing Information: All purchases for end use by this activity. \$278,163 of total purchases for this period were made from local vendors.

Canal Zone**US NAVAL STATION, RODMAN, C.Z.****Navy No. 188, FPO, New York, N.Y.**

Commanding Officer: CAPT K. W. Hines, USN

Executive Officer: CDR J. Mercer, USN

Purchase Branch Officer: LT J. D. Ethridge, SC, USN

Supervisor Purchase Branch: Mr. W. C. Watson

Cherry Point**MCAS, CHERRY POINT, NORTH CAROLINA****Havelock, N. C.**

Tel: GI 7-2111

Commanding Officer:

BRIG GEN R. R. Rottet, USMC

Supply Officer:

Capt. W. F. Muller, SC, USN.....Ext. 23135

Director, Purchase Branch:

Mr. E. J. Beamon..... 6287

Small Business Specialist:

Mr. E. J. Beamon..... 6287

Technical Information Director:

Mr. J. T. Creech..... 23219

Major Commodities Purchased: Maintenance (plumbing, electrical and construction items), Automotive, aeronautical and general stores inventory items.

Miscellaneous Purchasing Information: Designated as a non-centralized buying activity with purchase authority of \$25,000.

Corpus Christi**NAVAL AIR STATION, CORPUS CHRISTI, TEXAS**

Tel: TErminAl 5-8211

Commanding Officer: CAPT H. E. Born.....Ext. 397

Executive Officer: CDR M. P. Bailey..... 367

Director, Purchase Division:

LCDR R. E. Link..... 2278

Small Business Specialist Mr. H. F. Hale..... 2278

Technical Information Officer:

Mr. J. W. Martin..... 2383

Major Commodities Purchased: Commercial hardware, electrical supplies, plumbing and refrigeration, miscellaneous repair parts, automotive supplies, dairy products, bakery products, gasses, paints, office machines and supplies, office and quarters furniture, agricultural, books and publications, medical and dental, cleaning supplies and equipment, small hand and machine tools, machinery, services, i.e., laundry, dry cleaning, linen, packing and crating, all other services required excluding construction.

Miscellaneous Purchasing Information: The Purchase Division is the purchase activity for Naval Air Station, Corpus Christi; Naval Hospital, Corpus Christi; Naval Auxiliary Station, Kingsville, Texas; Naval Auxiliary Station, Chase Field, Beeville, Texas; Naval Auxiliary Station, Port Isabel, Texas; and Naval Auxiliary Station, New Iberia, Louisiana.

STATION SUPPORT



Crane

US NAVAL AMMUNITION DEPOT, CRANE, INDIANA

Tel: 2511

Commanding Officer (Acting):

CAPT W. R. McKinney, USN..... 2101
(No exec at this time)

Director, Purchase Division: Mr. J. W. Hudson.. 5731

Small Business Specialist: Mr. P. A. Anderson.. 5421

Technical Information Officer:

Mr. J. W. Hudson..... 5731

Major Commodities Purchased: Conventional ammunition & Components, pyrotechnics and components, and technical testing equipment.

Miscellaneous Purchasing Information: During Fiscal Year 1959 this activity executed 12,195 purchase actions valued at over \$3,000,000. The Purchase Branch supports Research & Development and Quality Evaluation Programs in addition to Pyrotechnic production. The Purchase Branch also acts as the contracting section for the Central Ammunition Supply and Control Organization of the Bureau of Weapons.

Dallas

US NAVAL AIR STATION, DALLAS 11, TEXAS

Tel: AN 2-5161

Commanding Officer:

CAPT R. M. Harper, USN.....Ext. 240

Executive Officer:

CDR L. E. Parsneau, USN..... 220

Director, Purchase Division:

Mr. Dwayne L. Weaver..... 355

Miscellaneous Purchasing Information: Materials and supplies are procured for direct turnover to station departments, and consist primarily of plumbing, electrical, office, and building supplies; hardware, automotive, and refrigeration spare parts; and aeronautical material required for station operation and maintenance.

Forest Park

US NAVAL ORDNANCE PLANT, FOREST PARK

7500 W. Roosevelt Rd.,

Forest Park, Illinois

Tel: Estebrook 8-3800

Commanding Officer:

CAPT W. C. Taylor, USN.....Ext. 321

Executive Officer: CDR E. A. Ryavec, USNR.... 323

Director, Purchase Division:

LCDR L. G. Butterfield, SC, USN..... 381

Small Business Specialist:

Mr. Jason C. VanDyke..... 283

Major Commodities Purchased: Raw materials and torpedo components.

Guam

US NAVAL SUPPLY DEPOT, GUAM, M.I.

Navy No. 926, FPO,

San Francisco, Calif.

Tel: 33-5143

Commanding Officer: CAPT W. J. Johnston, SC, USN

Executive Officer: CDR P. Troth, SC, USN

Purchase Division Officer: LT R. O. Girod, SC, USN

Major Commodities Purchased: Furniture for military housing; hardware; paint, plumbing and electrical fixtures; office labor saving devices; air conditioner units; dehumidifiers; various gases; motor gasoline; automotive spare parts; prescription and non-prescription safety glasses and accessories, diving equipment; dairy products; fresh provisions.

Guantanamo

US NAVAL SUPPLY DEPOT, Guantanamo Bay, Cuba

Navy No. 115, c/o FPO, New York, N.Y.

Commanding Officer:

CAPT N. W. James, III, SC, USN.....Ext. 8220

Executive Officer: CDR J. P. Allen, SC, USN

Director, Purchase Division: LCDR E. Gralla, SC, USN

Technical Information Officer: LT. R. G. Maier, SC, USN

Major Commodities Purchased: Soda; beer; fresh fruit and vegetables; sand and aggregate; cement tiles.

Miscellaneous Purchasing Information: The majority of procurements in the open market made for material required by the Naval Supply Depot and other U.S. Naval Base activities located at Guantanamo Bay, Cuba, are made by the Purchasing Department, Naval Supply Center, Norfolk, Va.

Hydrographic Office

US NAVY HYDROGRAPHIC OFFICE, Suitland, Maryland

Washington 25, D. C.

Tel: JORDAN 8-9060

Commanding Officer:

CAPT H. G. Munson, USN.....Ext. 328

Executive Officer:

CAPT J. N. Ferguson, Jr., USN..... 476

Head Purchase Section and Small Business

Specialist: J. R. Newberry, Jr..... 505 - 506

Technical Information Officer:

Gilbert Jaffe..... 244

Major Commodities Purchased: Electronic Oceanographic Equipment; Engineering services; lithographic and cartographic supplies and equipment; surveying equipment and supplies, and Research and Development of Oceanographic Equipment.

Indian Head

NAVAL PROPELLANT PLANT

Indian Head, Maryland

Tel: Riverside 3-2111

Commanding Officer:

CAPT G. T. Atkins, USN.....Ext. 200

Executive Officer:

CDR A. H. Galvani, USN..... 301

Director, Purchase Division:

Miss L. B. Yates..... 278

Small Business Specialist:

Mr. J. A. Kenlon..... 334

Technical Information Officer:

Ensign S. J. Underwood, USN..... 420

Major Commodities Purchased: Heavy chemicals, industrial acids, missile hardware, maintenance spares and repairs, propellant production equipment.

Miscellaneous Purchasing Information:

Contracting Officers:

CDR P. F. Quinlan, Jr., SC, USN.....Ext. 501

LTJG J. E. Craig, USN..... 397

Mr. J. A. Kenlon..... 334

**Key West****US NAVAL STATION****Key West, Florida****Tel: CY 6-3511****Commanding Officer:**

CAPT H. R. Wier, USN.....Ext. 527

Executive Officer:

CDR P. Southard, USN.....411

Supply Officer:

CDR J. M. Lewis, SC, USN.....276-418

Director, Purchase Branch:

Mr. John H. Richardson.....287

Small Business Specialist:

Mr. C. E. McCoy.....309

Contract Officer:

LCDR L. H. Hughes, Jr., SC, USN.....427-428

Major Commodities Purchased: Nonstandard construction maintenance supplies and equipment, office supplies and equipment.

Miscellaneous Purchasing Information: Items managed are those in fraction "A" (local control items) which comprise approximately 10% of the total procurements or purchase actions.

Louisville**US NAVAL ORDNANCE PLANT****Louisville, Kentucky****Commanding Officer:**

CAPT Robert L. Taylor.....Tel: EM 7-1109

Executive Officer: CDR W. H. Fisher.... EM 6-6394

Supply Officer: LCDR J. G. Downey.... EM 3-3511

Small Business Specialist:

Mr. R. S. Loebig.....EM 3-3511

Technical Information Officer:

LCDR W. K. Doty.....EM 8-4154

Major Commodities Purchased: Pipe, tubing, steel shapes, finished parts, castings, hardware, cable and aluminum shapes (plate, bar, sheet).

Macon**US NAVAL ORDNANCE PLANT****Guy Payne Road,****Macon, Georgia****Tel: SHerwood 3-5401****Commanding Officer:**

CAPT R. L. Neyman, USN.....Ext. 200

Executive Officer:

CDR H. V. Sellers, USN.....201

Director, Purchase Division:

Mr. G. W. Holcomb.....296

Small Business Specialist:

Mr. G. W. Holcomb.....296

Technical Information Officer:

LCDR E. H. Clark, SC, USN.....215

Major Commodities Purchased: Metals and Plastics (powders, bars, stampings, extrusions and drawings); Chemicals (cadmium plating); Explosives (Priming mixtures, delay composition and high explosives, propellants); Paper and Wood Packaging (Boxes and nesting).

McAlester**US NAVAL AMMUNITION DEPOT****McAlester, Oklahoma****Tel: GArden 3-6330****Commanding Officer:**

CAPT O. C. Robbins.....Ext. 484

Executive Officer: CDR J. L. Slade.....282

Director, Purchase Division:

LCDR L. T. Hughes.....411

Small Business Specialist: D. H. Adams.....272

Major Commodities Purchased: Paints; chemicals; sand; gravel; road building material; railroad accessories; building, electrical, plumbing supplies and hardware; and miscellaneous office supplies.

Miscellaneous Purchasing Information: U.S. Naval Ammunition Depot, McAlester, Oklahoma, is a non-centralized purchasing activity and initiates purchases to support the Depot's operations.

Memphis**US NAVAL AIR STATION****Memphis 84, Tenn.****Tel: JA 6-8851****Commanding Officer:**

CAPT L. J. Stone, USN.....Ext. 401

Executive Officer:

CDR W. D. Harrington, USN.....403

Director, Purchase Division: John G. Sells.... 221

Small Business Specialist: John G. Sells.....221

Technical Information Officer: Jesse Womack 314

Major Commodities Purchased: Electrical, building material, plumbing and heating, refrigeration.

NAMC**NAVAL AIR MATERIAL CENTER****Philadelphia 12, Pennsylvania****Tel: HO 5-1000****Commanding Officer:**

CAPT J. D. Arnold, USN.....Ext. 2501

Executive Officer:

CAPT H. C. Ferguson, USN.....2594

Supply Officer: CAPT O. B. Porter, SC, USN.... 2516

Director, Purchase Division:

LCDR S. E. Swenson, SC, USN.....2695

Small Business Specialist:

Miss Mildred G. Miller.....3669

Technical Information Officer:

CDR R. C. Spears, USN.....2501

Major Commodities Purchased: (a) Launching and Recovery mechanisms including catapults and arresting gear, as well as components thereto of varied types, sizes and characteristics, ranging from minor hardware to large complex assemblies, including weldments.

(b) Instrumentation for research, development and test projects.

(c) Specialized industrial production equipment including machine tools and metal working equipment necessary for the development and manufacture of airframes, power plants, electronics equipment and accessories for both manned and unmanned airborne vehicles.

(d) Engineering, test and developmental services.

(e) Miscellaneous materials including metals, synthetics, rubber, chemicals and allied products.

Miscellaneous Purchasing Information: NAMC has published two brochures of interest to contractors, "NAMC Small Business Information" and "Welcome to the Naval Air Material Center."

STATION SUPPORT



Naval Gun Factory

US NAVAL WEAPONS PLANT (Formerly Gun Factory)

Washington 25, D. C. Tel: Lincoln 7-5700

Commanding Officer: Superintendent,
NWP—CAPT Charles E. Briner.....Ext. 2000
Executive Officer: Assistant Supervisor
(Acting) CAPT J. V. Bewick..... 596
Supply Officer: CAPT C. A. Blick..... 626
Assistant Supply Officer:
CDR C. A. Clefton..... 747
Director, Purchase Division:
LCDR W. D. Sloan, Jr..... 2106
Small Business Specialist:
Mr. John L. Kensinger..... 652
Technical Information Officer:
LTJG C. C. Haesloop, Jr..... 408
Major Commodities Purchased: A wide variety of com-
modities and services.

New London

US NAVAL SUBMARINE BASE

New London, Connecticut Tel: TI 3-8911

Commanding Officer: CAPT G. W. Lautrup, USN
Executive Officer: CDR R. J. Froude, USN
Supply & Fiscal Officer:
CDR H. W. Cooley, SC, USN.....Ext. 680
Assistant Supply & Fiscal Officer:
CDR R. J. Walsh, SC, USN..... 682
Director, Purchase Division:
Mrs. E. M. Haag..... 685
Small Business Specialist:
Mr. D. J. Sullivan..... 627
Technical Information Officer:
LCDR W. B. Johnson, SC, USN..... 681
Major Commodities Purchased: Fresh provisions; con-
struction material; hardware; plumbing and electrical
supplies; stationery, electronic supplies.
Miscellaneous Purchasing Information: Some special
categories of purchases are: Medical research ma-
terial; proprietary submarine repair parts; repair
services for special equipments.

NOL

US NAVAL ORDNANCE LABORATORY

White Oak, Silver Spring,
Maryland

Tel: HEmlock 4-7100

Supply Officer:
CDR A. D. McCreary, SC, USN.....Ext. 513
Assistant Supply Officer:
LCDR R. E. Nickson, SC, USN..... 782
Chief, Supply Dept. Control Div.:
Mr. A. W. Black..... 665
Chief, Supply Purchase Branch:
Mr. J. Carruthers..... 8188
Small Business Specialist:
Mr. Ward C. Bull..... 511
Major Commodities Purchased: Electronic, electrical,
drafting services, manufacturing services for hard-
ware and research and development of ordnance
items.
Miscellaneous Purchasing Information: Major portion of
procurement comes from contracts executed by the

Bureau of Naval Weapons for the U.S. Naval
Ordnance Laboratory.

NWL

NAVAL WEAPONS LABORATORY, DAHLGREN, VIRGINIA

Tel: NOth 3-2511

Commanding Officer:
CAPT A. R. Faust, USN.....Ext. 200
Executive Officer:
CAPT V. V. Utgoff, USN..... 400
Director, Purchase Division:
B. R. Brumfield..... 981
Small Business Specialist:
LCDR A. B. Jaquay, SC, USN..... 991
Technical Information Officer: L. Horner..... 696
Major Commodities Purchased: Electronic equipment
and components; Research and Development serv-
ices and materials.

Ogden

US NAVAL SUPPLY DEPOT CLEARFIELD

Ogden, Utah

Tel: TAYlor 5-1661

Commanding Officer:
CAPT Charles F. Palmer, SC, USN.....Ext. 422 or 325
Executive Officer:
CAPT Harmon S. Tolbert, SC, USN.. 422 or 325
Director, Purchase Division:
CDR Albert S. Lachicotte, SC, USN.. 405
Technical Information Officer:
LT Carlton E. Hamel, SC, USN..... 534 or 519
Major Commodities Purchased: Housekeeping and
plant maintenance items and repair parts for equip-
ments on hand.

Pasadena

US NAVAL ORDNANCE TEST STATION—PASADENA

3202 E. Foothill Blvd.,
Pasadena, California

Tel: SYcamore 3-0621

Commanding Officer:
CAPT W. W. Hollister, USN.....Ext. 72201
Executive Officer: CAPT H. B. Hahn..... 72202
Director, Purchase Division:
CDR Harry J. Hicks, Jr., SC, USN..... 134 & 135
Small Business Specialist: C. V. Weaver.... 49
Technical Assistant: J. E. Fletcher..... 495
Major Commodities Purchased: (See below)
Miscellaneous Purchasing Information: The mission of
this Station is the development, test, and evaluation
of missiles, fire control, guidance systems, under-
water ordnance, and anti-submarine warfare. There-
fore, the purchase activity is essentially in the area
of hardware, components, engineering services, and
material related to the above. In addition, there is
station and community support and maintenance.
The Station has purchase and contracting authority
limited to \$5,000 per single transactions. All re-
quirements in excess of \$5,000 are forwarded to
the Navy Purchasing Office, Los Angeles.

Patuxent

US NAVAL AIR STATION

Patuxent River, Maryland

Tel: Great Mills
VOLunteer 3-3111



Commanding Officer:
CAPT William P. Woods, USN.....Ext. 261
Executive Officer:
CAPT W. J. Bowers, USN..... 263
Director, Purchase Division:
LTJG A Gann, Jr., SC, USN..... 201 or 241
Small Business Specialist:
Grace M. Moore..... 201 or 241
Major Commodities Purchased: Electrical, electronic,
automotive, plumbing, and maintenance materials.
Electronic and test instruments. Perishable foods.

Port Lyautey**US NAVAL AIR STATION**

Port Lyautey, Kenitra, Morocco
(Navy No. 214, c/o FPO, New York, N.Y.)
Commanding Officer: CAPT V. A. Jennings, USN
Executive Officer: CDR W. L. Perry, USN
Director, Purchase Division:
G. L. Beunges, CWO/W-4, USN
Major Commodities Purchased: Consumable supplies.

Puget Sound**PUGET SOUND NAVAL SHIPYARD, BREMERTON,
WASHINGTON**

Tel: ESsex 3-5011

Commanding Officer:
RADM P. W. Snyder, USN.....Ext. 09-406
Supply Officer:
CAPT E. W. Sutherling, SC, USN..... 07-234
Director, Purchase Division:
LT P. Curtin, SC, USN..... 07-271
Small Business Specialist:
R. I. Shenenberger..... 07-355
Technical Information Officer: G. Morris.... 07-459
Major Commodities Purchased: Ship components; ma-
rine hardware; industrial tooling and hardware.

US NAVAL STATION**ROTA, SPAIN (Navy No. 537, c/o FPO, New York,
N.Y.)**

Commanding Officer:
CAPT T. Robinson, USN.....Ext. 2051
Executive Officer:
CDR E. J. Wagner, USN..... 2024
*Director, Purchase Division:
CAPT G. M. Callison, SC, USN..... 2042
Small Business Specialist: Mr. A. J. Villarreal 2301
Technical Information Officer: Mr. R. Kaldi.... 2116
Major Commodities Purchased: Construction materials;
fresh provisions and miscellaneous commodities
available from the Spanish Market.
*Contracting Officer:
LCDR R. J. Knobel, USN.....Ext. 2055
Purchase Officer: LT S. J. Wachter, SC, USN.. 2117

Sangley Point**US NAVAL STATION, SANGLEY POINT**

(Luzon, Republic of the Philippines)
Navy No. 961, FPO, San Francisco, Calif.
Commanding Officer: CAPT J. D. McAllister, USN
Executive Officer: CDR D. G. White, USN
Director, Purchase Division: CDR L. E. Mosolf, SC, USN

Technical Information Officer:

CDR W. T. Spriegel, USN

Miscellaneous Purchasing Information: Non-standard
GSM type items, certain type petroleum products
and non-standard automotive spares are being pur-
chased from local sources.

San Juan**US NAVAL STATION, SAN JUAN, PUERTO RICO**

Navy No. 116, FPO, New York, N.Y. Tel: 2-0080

Supply and Fiscal Officer:

CDR G. C. Lemmon, SC, USN.....Ext. 452

Control Division Officer:

LT R. E. Hill, SC, USN..... 452

Director Purchase Division: Mr. G. Medina.... 471

Major Commodities Purchased: Subsistence; household
furniture; household and commercial furnishings
and appliances; construction and building materials;
office machines; refrigeration and air conditioning
equipment and supplies; plumbing; hardware and
abrasives; pipe, tubing and fittings; automotive ve-
hicles and construction machinery spare parts; and
services.

Subic Bay**US NAVAL SUPPLY DEPOT, SUBIC BAY**

Navy No. 3002, c/o FPO, San Francisco, Calif.

Commanding Officer:

CAPT F. B. Grubb, SC, USN.....Ext. 44-3156

Executive Officer:

CDR H. R. Johnson, SC, USN..... 44-2210

Director, Purchase Division:

LT R. W. Schwenz, SC, USN..... 44-3280

Technical Information Officer:

CDR C. L. Griffin, SC, USN..... 44-3191

Major Commodities Purchased: Repair parts automo-
tives; beer, furnitures (rattan and wood); industrial
gasses, General Stores (not otherwise specified),
lumber, poles, pilings, and plywood; petroleum
products; fresh provisions; dairy and bakery pro-
ducts; and services such as mess attendants, repair
and recapping of tires; repair and maintenance of
office equipment and stevedoring.

York**US NAVAL ORDNANCE PLANT, YORK,
PENNSYLVANIA**

Arsenal Road, York, Pa. Tel: 7821

Commanding Officer:

CAPT G. H. Laird, Jr., USN.....Ext. 334

General Supply Officer, or Assistant

Contracting Officer: John E. Baublitz..... 336

Procurement Officer: Clitus F. McElwain..... 220

Small Business Specialist: Edward J. Yergo.... 245

Technical Information Officer:

CDR R. E. Coleman, USN..... 331

Major Commodities Purchased: Electrical and Mechan-
ical parts and assemblies; non-ferrous castings and
forgings, small metal stampings, plastic and rubber
molded parts, sheet metal fabrication, steel and non-
ferrous metals.



SYSTEM BUYING

NAVY SUPPLY System Buying is the job of Supply Demand Control Points (SDCP). After the various Navy bureaus have bought end items such as ships, aircraft, buildings and armament, the SDCP buys support material for the equipment.

The SDCP's are like the home offices of a large chain store, determining needs and buying centrally for distribution to the stores. For example, the Aviation Supply Office, an SDCP, buys aircraft parts and has them shipped to the various air stations. There, the parts are used to overhaul aircraft. Likewise, the Bureau of Ships buys the subs while the SDCP's furnish the lead paint.

13 INVENTORY CONTROL POINTS MANAGE THE NAVY'S SUPPLY SYSTEM INVENTORY

- Aviation Supply Office (ASO)
- Electronics Supply Office (ESO)
- Forms and Publications Supply Office (FPSO)
- Fuel Supply Office (FSO)
- General Stores Supply Office (GSSO)
- Navy Clothing and Textile Office (NCTO)
- Navy Medical Material Office (NMMO)
- Navy Ships Store Office (NSSO)
- Navy Subsistence Office (NSO)
- Ordnance Supply Office (OSO)
- Ships Parts Control Center (SPCC)
- Submarine and Reactor Parts Office (SUBARPSO)
- Yards and Docks Supply Office (YDSO)

System Buying Activities

ASO

AVIATION SUPPLY OFFICE

700 Robbins Ave.,
Philadelphia 11, Penn. Tel.: Pilgrim 2-1000

Commanding Officer: RADM J. M. Lyle.....Ext. 301
Executive Officer: CAPT J. J. Appleby..... 304
Director, Purchase Division:
CAPT J. W. Hirst..... 550
Small Business Specialist:
Mr. W. F. O'Connell..... 468
Technical Information Officer:
Mr. R. V. Heim..... 8001
Major Commodities Purchased: Aviation and photographic spare parts and equipments, required for maintenance and overhaul of U.S. Navy and Marine Corps aircraft.
Miscellaneous Purchasing Information: Value of con-

tract awards in FY 59 totaled \$551,708,468, including \$56,085,112 awarded to small business.

ESO

ELECTRONICS SUPPLY OFFICE

Building 3400,
Great Lakes, Illinois

Tel.: Delta 6-3500

Commanding Officer:
CAPT R. H. Northwood.....Ext. 8400
Executive Officer:
CAPT W. F. Harvey, Jr..... 8401
Director, Purchase Division:
CDR H. E. Beckmeyer..... 8291
Small Business Specialist:
Mr. R. L. Fitzgerald..... 8298
Technical Information Officer:
CDR R. A. Bradley..... 8342
Major Commodities Purchased: Electronic repair parts.
Miscellaneous Purchasing Information: ESO made purchases in the amount of \$44,925,650 in FY 59. Effective January 1959, the Commanding Officer, ESO, was designated Contracting Officer for the Bureau of Ships, with authority to negotiate and issue amendments establishing firm prices for repair parts under electronic equipment contracts entered into by the Bureau of Ships. This new responsibility will become one of the major functions of the ESO Purchase Division as the organization phases into this new function.

FSO

FUEL SUPPLY OFFICE

Washington 25, D. C.

Tel.: Lincoln 7-5700

Commanding Officer: CDR J. J. Lynch.....Ext. 2596
Executive Officer: CDR R. M. Hoag..... 2596
Director, Purchase Division:
LCDR D. L. Kellogg..... 2211
Small Business Specialist:
Mr. Richard M. Bishop..... 2231
Technical Information Officer:
Mr. Ben H. Bedwell..... 2211
Major Commodities Purchased: Coal—bituminous, sub-bituminous, lignite, anthracite; and coke.
Miscellaneous Purchasing Information: FSO purchases solid fuel (coal) for the Army, Air Force, Navy and Marine Corps. Practically all procurement is by formal advertising. Requests for invitations for bids should be submitted to the Navy Fuel Supply Office, and bids must meet the specifications set forth in the invitation to be acceptable.

GSSO

GENERAL STORES SUPPLY OFFICE

700 Robbins Avenue,
Philadelphia 11, Pa.

Tel.: Pilgrim 2-1000

Commanding Officer:
CAPT John W. Bottoms.....Ext. 201
Executive Officer:
CAPT Robert L. Watson..... 202
Director, Purchase Division:
CDR Wilbert W. Lenox..... 240
Small Business Specialist:
Mr. Sidney Charles..... 749



Technical Information Officer:

CDR James A. Corrick..... 217

Major Commodities Purchased: Paints, hardware, chemicals, handtools, bearings, valves, metals (ferrous and nonferrous), cables, metal fasteners, house-keeping and maintenance supplies.

Miscellaneous Purchasing Information: GSSO manages 61,331 supply items as indicated above and procurements for FY 59 totaled \$168,083,276. Application to be placed on the regular Bidders List may be made by writing the General Stores Supply Office, Attention Code 720.

NC & TO

NAVY CLOTHING AND TEXTILE OFFICE

2800 South 20th Street,
Philadelphia 45, Penna.

Tel.: HO 5-2000

Commanding Officer: CAPT W. D. Ellis.....Ext. 8300

Executive Officer: CDR G. H. Iber..... 8302

Miscellaneous Purchasing Information: Purchase functions for this office are performed by a Single Manager Agency, the Military Clothing and Textile Supply Agency, administered by the Department of the Army.

NFP50

NAVY FORMS AND PUBLICATIONS SUPPLY OFFICE

Byron, Georgia

Tel.: WO 3-4105

Commanding Officer: CAPT A. H. Barnett, Jr.....Ext. 1

Executive Officer: CDR G. F. Gould..... 2

Miscellaneous Purchasing Information: Procurement of forms, publications, decals, service buttons and service pins is consummated through the Administrative Office of the Navy Department or the Navy Purchasing Office, Washington, D. C.

NMMO

NAVY MEDICAL MATERIAL OFFICE

3rd Avenue and 29th Street,
Brooklyn 32, N.Y.

Tel.: STerling 8-5000

Commanding Officer: CDR Allen L. Jones.....Ext. 455

Miscellaneous Purchasing Information: The Navy Medical Material Office has no procurement responsibilities. Purchase function is performed by the Single Manager for Medical Material, the Military Medical Supply Agency (listed elsewhere in this issue).

NSO

NAVY SUBSISTENCE OFFICE

Washington 25, D. C.

Tel.: LincolN 7-5700

Commanding Officer: CAPT S. Boozer.....Ext. 2044

Executive Officer: CDR J. M. Shea..... 2075

Miscellaneous Purchasing Information: Under the Single Manager concept, Navy requirements for the majority of subsistence items are controlled and purchased by the Department of the Army through the Executive Director, Military Subsistence Supply Agency, Chicago, Illinois, and the various regional headquarters of that Agency. Those subsistence items designated for local procurement are purchased locally by Navy retail stocking activities and direct requisitioners.

NSSO

NAVY SHIP'S STORE OFFICE

3rd Avenue and 29th Street,
Brooklyn 32, N.Y.

Tel.: STerling 8-5000

Commanding Officer: CAPT R. W. Sauer.....Ext. 340

Executive Officer: CAPT D. G. Cone..... 341

Director, Purchase Division: Mr. J. J. Emma
(General Operations Manager)..... 350

Small Business Specialist:

Mr. E. A. Malone..... 352

Technical Information Officer:

CDR J. D. Wilson..... 270

Major Commodities Purchased: Items and services as authorized by the Armed Services Exchange Regulations, for resale in Navy Exchanges and Commissary Stores.

Miscellaneous Purchasing Information: NSSO provides channels for procurement action initiated at local level by individual officers in charge of Navy Exchanges and Commissary Stores.

For Navy Exchanges, the above is accomplished by entering into negotiations with suppliers for the availability of merchandise and supplies. Details of negotiation are then promulgated in the form of Price Agreement Bulletins or Merchandise Vocs. Individual Officers in Charge purchase listed articles in accordance with the completed negotiated terms as stated. When articles listed on bulletins are available at a local source at the same or lower price they will procure the identical items from the local source. To be identical, articles must be made by the same manufacturer and carry the same brand name. NSSO also procures merchandise directly for Exchanges upon specific requests.

Purchase action for Commissary Stores is initiated locally through the use of U.S. Army prepared Purchase Agreements or, in case of Exchanges, specific requests may be handled through NSSO. Procurement action for equipment of a permanent nature, necessary for operation of individual resale activities is centered at NSSO.

OSO

ORDNANCE SUPPLY OFFICE

Mechanicsburg, Pennsylvania

Tel.: POplar 6-8511

Commanding Officer: CAPT R. L. Myers.....Ext. 652

Executive Officer: CAPT R. A. Porter..... 653

Director, Purchase Division:

CDR W. J. Cummings..... 735

Small Business Specialist:

Mr. P. J. Horan..... 669

Technical Information Officer:

LCDR H. P. Granger..... 473

Major Commodities Purchased: Naval ordnance guided missile equipment and repair parts including repair of such equipment.

Miscellaneous Purchasing Information: OSO manages some 127,000 items of supply. In FY 59, 52% of OSO procurements were awarded to small businesses.



SPCC

SHIPS PARTS CONTROL CENTER

Mechanicsburg, Pennsylvania Tel.: POplar 6-8511

Commanding Officer: CAPT S. Sherwood.....Ext. 700
Executive Officer: CDR T. Fuller..... 701
Director, Purchase Division:
CDR O. R. Blanton..... 362
Small Business Specialist:
Mr. Leo A. Yeager..... 527
Technical Information Officer:
CDR D. E. Fairchild..... 447
Major Commodities Purchased: Repair parts and components for ships—mechanical and electrical.
Miscellaneous Purchasing Information: The SPCC manages some 149,824 supply items. In FY 59 the Center accomplished 35,000 procurement actions amounting to \$48,500,000.

SUBARPSO

SUBMARINE AND REACTOR PARTS SUPPLY OFFICE

Mechanicsburg, Pennsylvania Tel.: POplar 6-8511

Commanding Officer: CAPT S. B. Lee.....Ext. 802
Executive Officer: CDR F. W. Weatherson..... 801
Director, Purchase Division:
*CDR O. R. Blanton..... 362
Small Business Specialist:
*Mr. Leo A. Yeager..... 527
Technical Information Officer:
**Mr. J. Shanafelt..... 287
Major Commodities Purchased: Bearings; pumps and compressors; pipe, tubing; hose and fittings; valves; electrical and electronic equipment components; engine accessories; hand tools.
*Effective July 1, 1959, the SUBARPSO purchase function was transferred to the Ships Parts Control Center (SPCC).
Miscellaneous Purchasing Information: **Technical Information Officer function assumed by Naval Supply Depot, Mechanicsburg.

YDSO

YARDS AND DOCKS SUPPLY OFFICE

U.S. Naval Construction Battalion Center, Port Hueneme, California Tel.: HUnter 6-1651

Commanding Officer:
CAPT Randolph Meade, Jr.....Ext. 204
Executive Officer:
CDR George S. Foster, Jr..... 257
Director, Purchase Division:
CDR Frank J. Kriz..... 8500
Small Business Specialist:
Miss Olive Sherman..... 8515
Technical Information Officer:
Mr. Peter A. Panaro..... 210
Major Commodities Purchased: Repair parts, attachments and accessories for automotive, materials handling, construction, station and utility and certain aviation maintenance and servicing equipment; major household appliances; valves; abrasive wheels; circuit breakers; tanks; pipe; compressors; generators; pumps; mowers; boilers; chain; pontoon hard-

ware; prefabricated steel buildings; transformers; welders; elevating work towers; and refuse collection systems.

Miscellaneous Purchasing Information: FY 59 procurements totaled approximately \$11 million. YDSO purchasing responsibility divided as follows:

1. To support Yards and Docks segment of the Navy Supply System it purchases repair parts, attachments and accessories for automotive, construction, station and utility and certain aviation maintenance and servicing equipment, as well as some building supplies such as valves, electrical and non-electrical hardware.

2. As purchasing agent for the Bureau of Yards and Docks it procures base type equipment not under Single Managership purchase assignment to the Department of the Army.

3. It has single service purchase assignment for peculiar parts, attachments and accessories for materials handling equipment and locomotive cranes; prefabricated and portable buildings, and repair parts for floating cranes, floating drydocks and pontoon propelling units.

MMSA (Single Manager Agency)

MILITARY MEDICAL SUPPLY AGENCY

3rd Avenue and 29th Street, Brooklyn 32, N.Y.

Tel.: STerling 8-5000

Executive Director:
RADM W. L. Knickerbocker.....Ext. 320
Deputy Executive Director:
CAPT H. R. Fahlbusch..... 321
Director, Purchase Division:
CDR Arnold Weiss..... 791
Small Business Specialist:
Mr. Donald L. Kellogg
Technical Information Officer:
Col. P. E. McMahan, USAF..... 642

Major Commodities Purchased: Drugs, biologicals, hospital and laboratory equipment and supplies, dental equipment.

Miscellaneous Purchasing Information: MMSA purchases all medical-dental material for the armed services, except for local emergency purchases.

MPSA (Single Manager Agency)

MILITARY PETROLEUM SUPPLY AGENCY (MPSA)

Washington 25, D. C.

Tel.: Liberty 5-6700

Executive Director: RADM O. P. Lattu.....Ext. 78900
Deputy Executive Director:
CAPT P. D. Chubb..... 78909
Director, Purchase Division:
COL. R. E. Zahrobsky, USA..... 78977
Small Business Specialist:
Mr. R. A. Wightman..... 56104
Technical Information Officer:
COL L. Stann, USAF..... 78862

Miscellaneous Purchasing Information: MPSA purchases following materials for the armed forces: aviation gasoline, jet fuels, deisel fuel, motor gasoline, Navy special fuel oil, packed oil and petroleum products and lubricants.

DATALOG OF MISSILE, SPACE, AND DETECTION PROJECTS

MILITARY MISSILES, April 1960

★ New information this month

AA—Air-to-Air
AS—Air-to-Surface
AU—Air-to-Underwater

SS—Surface-to-Surface
SA—Surface-to-Air
SU—Surface-to-Underwater
UU—Underwater-to-Underwater

ICBM—Intercontinental Ballistic Missile
IRBM—Intermediate Range Ballistic Missile
ECM—Electronic Countermeasures

ARROW Army

Type: AS
prime: Grand Central Rocket
guide: Unguided
power: Grand Central Rocket

★ Launched from helicopter or medium-weight Army a/c, ARROW rocket motor burns out at from 5000 to 7000 ft. and coasts upward to appx. 45,000 ft. With a 6-lb. payload, separation is req. from 5000 to 7000 ft. in order for this payload to coast upward to 120,000 ft. Payload is needle-nosed enlarging to appx. 2 in. O.D. and enters target area almost vertically.

ASROC Navy

Type: SU
prime: Minn.-Honeywell

★ Solid rocket-powered nuclear torpedo. Sked. for fleet use Jan. '61.

ASTOR Navy

Type: SU
prime: Westinghouse

ATLAS SM-65 AF

Type: ICBM
prime: Convair
guide: GE/Burroughs/Am. Bosch
power: Rocketdyne
weight: 260,000 lbs.
length: 75 ft.
dia: 10 ft.
range: 5500 naut. mi.

★ First test flight with Arma guidance made in early March. A silo test facility for ATLAS will be ready soon at Vandenberg. Increased appropriations expected. Of 47 firings to date 30 were successful, 8 partially successful, and 9 failed.

BOMARC IM-99 AF

Type: SA
prime: Boeing
guide: Westinghouse
power: A—Marquardt
B—Thiokol
funding: \$421.5 million on BOMARC-B in FY 61
speed: Mach 2.7
range: 500 mi.

★ BOMARC B test failings have added heat to the fire. Congress will probably cut away a large piece of the requested \$421½ million appropriation, if they do not cancel it entirely.

BULLPUP ASM-N-7 Navy GAM-83 AF

Type: AS
prime: Martin
guide: radio command/Republic
power: Thiokol
weight: 250 lbs.
range: 4 mi.

★ Funds recently requested for more BULLPUP birds.

CLAM AF

Type: AS
power: Ramjet
No contracts announced.

★ Chemical Low Altitude Missile listed in AF missile specifications book. Possible use as target drone.

CLAYMORE Army

Type: SS
No contracts announced.

Anti-personnel weapon of short range. Designed for troops in field.

COBRA USMC

Type: SS
prime: Boelkow Entwicklungler, W. Germany (distrib. U.S.: Daystrom)
guide: wire guided
power: Solid BE
weight: 24.6 lbs.
speed: 191 mph.
range: 1 mi.

Anti-tank missile now operational with W. German forces being purchased by USMC for evaluation. 100 purchased by USMC. Army also plans evaluation.

CORPORAL SSM-A-17 Army

Type: SS
prime: Firestone
guide: Gilfillan
power: Aerojet
range: 75 mi.

Phasing out in favor of SERGEANT. NATO troops using, some US forces in Europe still have CORPORAL.

CORVUS XASM-N-8 Navy

Type: AS
prime: Temco
guide: Texas Instrument
power: Reaction Motors
range: 100 mi.

★ First fully guided bird flew mid March. CORVUS was designed for attack on radar installations. New model being dvlpd as countermeasure (ECM) bird.

CROSSBOW AF

Type: AS
prime: Northrop

★ Now in dvlpmt. Homes on enemy radar.

DAVY CROCKETT Army

Type: SS
prime: Rock Island Arsenal

Bazooka-launched field weapon with low nuclear yield. Can be hand-carried. Sked to be operational latter part 1960.

EAGLE JAAM-N-10 Navy

Type: AA
prime: Bendix
guide: Bendix/Sanders
power: Aerojet
range: 100 mi.

EAGLE won out in political battle against GAR-9 FALCON. Navy has high hopes for EAGLE as attack

DATALOG OF MISSILE, SPACE AND DETECTION PROJECTS

(2nd Sheet)

MILITARY MISSILES, April 1960

★ New information this month

missile with nuclear warhead, launched from carrier a/c appx. 50 miles from target. Provides safety for manned fighters of relatively slow speeds.

FALCON GAR-1, -2, -3, -4, -9, -11 AF

Type: AA
prime: Hughes
guide: Hughes
power: Thiokol
speed: Mach 2.0
range: 5 mi.

★ GAR-3 is operational, SUPER FALCON GAR-3 in test. GAR-2 and 4 are Infrared guided. GAR-9 is radar guided with nuclear warhead. Long range GAR-9 now being cut back in production. Nuclear-armed GAR-11 is in R&D.

GENIE MB-1 AF

Type: AA
prime: Douglas
guide: unguided
power: Aerojet
range: 1.5 mi.

Now being carried by F-89J, F-101B and F-106. First operational nuclear warhead air-to-air bird, GENIE is pointed downward at launch, curves up at target. Unguided with spin-stabilization. Guided version in R&D.

GIMLET Navy

Type: AA-AS
No contracts announced.

★ Information was never released on this air-launched bird. It's on the shelf now.

HAWK XM3E1 Army

Type: SA
prime: Raytheon
guide: Raytheon
power: Aerojet
range: 20 mi.

★ Now operational, will be used by both Army and Marine Corps troops against low-level targets. Now sched for use by NATO. Swiss AF considering HAWK. Modified model with better performance now in R&D.

HONEST JOHN M31, XM50 Army

Type: SS
prime: Douglas
guide: unguided
power: Hercules Powder/Thiokol
range: 17 mi.

Operational with U.S. forces in Europe. Little John to replace Honest John for less than maximum ranges. XM50 is increased ranged M31 with greater accuracy.

HOUD DOG GAM-77 AF

Type: AS
prime: North American
guide: Autonetics
power: Pratt & Whitney (J52)
funding: \$170 million in FY61
speed: Mach 1.7
range: 500 mi.

★ Comparable Soviet missile is said to be USSR's KOMET D. Proposals being made for long range version.

JUPITER SM-78 Army-AF

Type: SS
prime: Chrysler
guide: Ford Instrument
power: Rocketdyne

★ Operational now with Italian and Turkish troops in

Europe. The 864th and 865th squadrons of SAC trained with JUPITER. THOR replacing. Will be used as target for anti-missile weapons. Score to date; 26 successes, 1 partial success, 2 failures.

LACROSSE SSM-A-12 Army

Type: SS
prime: Martin
guide: Federal Tel.
power: Thiokol
range: 20 mi.

This weapon is unique in its design to place a very heavy warhead under command guidance on a battlefield target. LACROSSE is under limited production and is operational. Production is being handled by Martin at Orlando. Two units are scheduled to go to Germany in March and April.

LITTLE JOHN Army

Type: SS
prime: Emerson Elec.
guide: unguided
power: Hercules Powder
range: 10 mi.

Designed for "shoot and scoot" operations, LITTLE JOHN will soon be operational.

LOBBER Army

Type: SS
range: 15 mi.

★ Designed for attack and supply missions.

LOKI Army

Type: AS anti-tank
prime: Grand Central Rocket
guide: unguided
power: Grand Central Rocket

★ Helicopter-launched anti-tank weapon. Fixed fins. Needle-nosed warhead.

LULU Navy

Type: AU
No contracts announced.

Air dropped nuclear warhead anti-sub missile is highly classified by Navy. Now undergoing development. No contract announced.

MACE TM-76 AF

Type: SS
prime: Martin
guide: AC Spark/Goodyear
power: Allison (J33-A-41)
funding: \$39.8 million in FY 61. No renewal.
range: (B) 1000 mi.

★ The AF boys in W. Germany are good salesmen. Germany will buy MACE.

MATADOR TM-61 AF

Type: SS
prime: Martin
guide: Goodyear
power: Allison (J33-A-37)
range: 650 mi.

Production has now ceased in favor of MACE. MATADORS being turned over to West Germans and Natl. Chinese.

DATALOG OF MISSILE, SPACE AND DETECTION PROJECTS

MILITARY MISSILES, April 1960

★ New information this month

MAULER Army

Type: SA

prime: Convair

Infra-red guided anti-air weapon has been designed for field-troop use. Sub-contractor is Raytheon. Project is still going ahead strong.

MINUTEMAN SM-80 AF

Type: ICBM

prime: Boeing

guide: Autonetics/North American

power: Thiokol/Aerojet/Hercules Powder

★ Three-stage MINUTEMAN is expected to become operational by late 1962 or early 1963 but dvlpmnt may be accelerated to close Soviet missile lead.. MINUTEMAN will be made mobile by RR launch. Full scale studies underway on silo dvlpmnt with \$5.3 million contract to G. A. Fuller.

MISSILE A Army

Type: SS

No contracts.

range: 70 mi.

This solid fuel missile is designed as fire support for infantry. It's light weight (under 500 lbs.), simple operation, and transportability by helicopter, make it ideal for field use. Evaluation has been completed by the Army. Contracts should be announced soon.

MISSILE B Army

Type: SS

No contracts

Range: 10-20 mi.

★ Will replace LITTLE JOHN. Still in dvlpmnt stage.

MISSILE C Army

Type: SS

No contracts

range: 70-90 mi.

★ Similar to SERGEANT. In dvlpmnt.

MISSILE D Army

Type: SS

No contracts

Range: Over 500 mi.

★ Now in early dvlpmnt. PERSHING will fulfill mission of MISSILE D.

NIKE-AJAX SAM-A-7 Army

Type: SA

prime: Western Electric

guide: Western Electric

power: Hercules Powder

speed: Mach 2.5

range: 25 mi.

Operational in U. S., Europe and Far East. Being replaced by NIKE-HERCULES. Non-nuclear.

NIKE-HERCULES SAM-A-25 Army

Type: SA

prime: Western Electric

guide: Western Electric

power: Hercules/Thiokol

funding: \$111.4 million in FY 61

speed: Mach 3.2

range: 75 mi.

Work continuing rapidly on conversion of NIKE-AJAX sites to NIKE-HERCULES. This fine weapons system appears slated for long retention in our anti-aircraft protection arsenal. Nuclear head.

NIKE-ZEUS Army

Type: SA

prime: Western Electric

guide: Bell Telephone

power: Grand Central Rocket/Thiokol

range: 200 mi.

★ Altho still plagued with difficulties in reliability, NIKE-ZEUS is still on sched but DOD withholds funds for further evaluation.

PERSHING Army

Type: SS

prime: Martin

guide: Bendix

power: Thiokol

range: 700 mi.

★ New \$82½ million contract to Martin for additional R&D.

POLARIS FBM Navy

Type: US-SS

prime: Lockheed

guide: GE

power: Aerojet

range: 1000 mi.

★ March underwater test sched to test ignition. Nuclear sub. GEORGE WASHINGTON will get POLARIS in Sept. End of '60 will see PATRICK HENRY as second POLARIS sub. Navy says the future calls for a total of 45 POLARIS firing subs. Increased appropriations expected. Score to date: 38 successes, 15 partial, 2 failures. Navy's POLARIS now has Soviet competitor in USSR's GOLEM IV, similar underwater-to-surface missile.

QUAIL GAM-72 AF

Type: AS-ECM

prime: McDonnell

guide: radio command

power: GE (J85)

Air-launched diversionary missile of extreme sophistication and complexity is valuable aid in protection of SAC bombers.

RAVEN XASM-9 Navy

Type: AS

No contracts announced.

range: 500 mi.

Proposed air-to-surface range: 500 mi missile now under study. Project appears to be lagging.

REDEYE Army

Type: SA

prime: Convair

guide: Convair

power: Atlantic Research

Lightweight (20 lb.) infra-red guided bazooka-type missile well along in testing. Army has high hopes for this relatively inexpensive and effective easily-carried guided missile that can be fired from a soldier's shoulder.

REDSTONE SSM-A-14 Army

Type: SS

prime: Chrysler

guide: Sperry Rand

power: Rocketdyne

range: 200 mi.

★ Now operational with U. S. troops in Europe. REDSTONE now equipped with TV for bird's eye view of battle.

DATALOG OF MISSILE, SPACE AND DETECTION PROJECTS

(4th Sheet)

MILITARY MISSILES, April 1960

★ New information this month

REGULUS I SSM-N-8 Navy

Type: SS
prime: Chance Vought
guide: AC Spark Plug
power: Allison (J33)

Although cut in production, REGULUS I is aboard some ships and subs of the U. S. fleet and is operational. Biggest news with REG I, however, is not its current Navy dress but the fact that it has been used in "missile mail" tests by the Post Office Dept.

REGULUS II SSM-N-9A Navy

Type: SS
prime: Chance Vought
guide: Stavid/Sperry/AC
power: GE (J79)
range: 500 mi.

Much more powerful and larger version of REGULUS I, REG II has also been cut from Navy funding but also is being eyed by Post Office Department as speedy ("beyond Mach 2") missile mail carrier that could fly in any weather. Now being used in fleet as target drone.

SERGEANT SSM-A-27 Army

Type: SS
prime: Sperry
guide: Sperry
power: Thiokol
range: 75 mi.

Easily assembled in field in about 11 minutes, smaller, more flexible solid propellant SERGEANT is now in production to replace Army's CORPORAL. Nearly operational.

SHILLELAGH Army

Type: SS
prime: Aeronutronics
guide: Aeronutronics
power: Picatinny Arsenal
range: 8 mi.

★ As a sub-contractor, Raytheon is developing the fire control sub-system. The electronics computer for guidance and control of the light-weight troop support missile is also by Raytheon. The weapon is ideal for close-in troop support, and can be launched from small vehicles.

SIDEWINDER AAM-N-7 Navy GAR-8 AF

Type: AA
prime: Philco
guide: Philco/GE
power: Hercules Powder
range: 7 mi.

★ Extremely popular infra-red homing missile is simple and rugged. SIDEWINDER-1C is advanced model with higher speed and greater range. Advanced model is in test. All-weather version, to be used on PHANTOM 2 fighter, now in R&D.

SKY BOLT GAM-87A AF

Type: AS
prime: Douglas
guide: Nortronics
power: Aerojet
range: 1000 mi., a/c launch

★ This two stage, solid propellant missile will be a great aid to SAC. Test flights in process.

SLAM AF

Type: SS
No contracts announced.

Supersonic low altitude missile. Contractors now being selected.

SNARK SM-62 AF

Type: SS
prime: Northrop
guide: Northrop
power: Pratt & Whitney (J57)
speed: Mach 0.9
range: 5500 mi.

Highly reliable guided winged missile. Subsonic. Operational with AF unit at Presque Isle, Maine. To be replaced by ballistic types.

SPARROW III AAM-N-6, 6A Navy

Type: AA
prime: Raytheon
guide: Raytheon
power: Thiokol/Aerojet

★ With pre-packaged Thiokol powerplant, top Navy officials feel "SPARROW III is finest electronically guided missile in the world." It is designed for use on PHANTOM 2 fighter. USMC will also eventually use this bird.

SS-10 Army

Type: SS
prime: Nord of France
weight: 33 lbs.
range: 0.9 mi.

Wire guided anti-tank weapon. Operational with U. S. and NATO forces. Used by the French in Algerian battles with success.

SS-11 Army

Type: SS
prime: Nord of France
weight: 63 lbs.
range: 2 mi.

★ Can be carried and launched by helicopter as well as by troops in field using wire guidance. Operational with French forces. Under study by U. S. Army.

SUBROC Navy

Type: SU-UU
prime: Goodyear
guide: Librascope/Kearfott
power: Thiokol
range: 25-50 mi.

This complex weapons system is launched through a torpedo tube of a submarine or surface vessel. Rising, it flies from 25 to 50 miles through the air, then re-enters the water and homes on its submerged target. Key to perfection of the system is reliability and range of built-in sonar equipment. Work is now continuing along that line.

TALOS SAM-N-6 Navy

Type: SA
prime: Bendix
guide: Bendix/AVCO
power: McDonnell
speed: Mach 2.5
range: 65 mi.

Unique in its integral ramjet body, TALOS is now operational aboard the guided missile cruiser GALVESTON.

TARTAR Navy

Type: SA
prime: Convair
guide: Sperry
power: Aerojet/Rocketdyne
length: 15 ft.
dia: 1 ft.
speed: Mach 2.0
range: 10 mi.

★ Now has new electric boost by Rocketdyne. TARTAR

DATALOG OF MISSILE, SPACE AND DETECTION PROJECTS

MILITARY MISSILES, April 1960

★ New information this month

is sched to be operational in 1960. Test firings now going on in Pacific waters. Jap Govt will buy 42 TARTAR missiles.

TERRIER SAM-N-7 Navy

Type: SA
 prime: Convair length: 27 ft.
 guide: Sperry speed: Mach 2.5
 power: Allegheny/Rocketdyne range: 10 mi.

★ Beam riding missile for use on larger surface ships, TERRIER has new electronic booster like cousin TARTAR. Operational with the fleet. Advanced TERRIER missiles now in increased production.

THOR SM-75 AF

Type: IRBM
 prime: Douglas power: North American
 guide: AC Spark Plug range: 1500 mi.

★ Now operational. RAF THOR units now complete with 60 birds. In its role as a research vehicle, THOR has served as an effective first stage booster, most capably shown in the THOR-ABLE lunar probe combo.

TITAN SM-68 AF

Type: ICBM power: Aerojet
 prime: Martin length: 90 ft.
 guide: Bell/Am. Bosch/Sperry Rand range: 5500 mi.

★ Test facility at Vandenberg will be ready soon. TITAN program now moving along nicely. Firing and recovery of 23 March marked seventh success out of last eleven tries.

TYPHON Navy

Type: SA-SS
 ★ Under dvlpt. by Navy. New name for SUPER TALOS (long range TYPHON) and SUPER TARTAR (medium range TYPHON).

WAGTAIL AF

Type: AS
 prime: Minn-Honeywell
 guide: Minn-Honeywell
 power: not releasable

This remarkable rocket will be able to follow contours of terrain and change speed in flight. WAGTAIL has been successfully sled-tested.

WEAPON ABLE Navy

Type: SU
 No contracts released.
 BuOrd "in-house"

Operational with the fleet, WEAPON ABLE is rocket-powered depth charge now installed on destroyer escorts and class 931 frigates.

WHITE LANCE GAM 83 AF

Type: AS
 prime: Martin
 guide: radio command Republic
 power: Thiokol

★ Larger model of Navy BULLPUP for AF use. Now in dvlpmnt.

ZUNI Navy

Type: AS
 No contracts released.
 NOTS produced.

Operational with carrier based a/c, ZUNI is a folding fin all-weather unguided rocket carried in multiple units. The Douglas AD a/c carry 48 ZUNIs below their wings on combat missions. The weapon is effective against pill-boxes, tanks, gun emplacements and small ships.

SPACE PROJECTS, April 1960

AGENA ARPA

Type: Liquid-fueled Upper Stage
 prime: Lockheed
 Obj: AGENA will be useable as a second stage to ATLAS and THOR missiles. It incorporates a Bell rocket engine similar to that used previously in the HUSTLER vehicle. The AGENA upper stage is used in DISCOVERER, MIDAS and other projects. AGENA and SATURN are part of PROJECT TRIBE.

AGENA B AF/NASA

Type: Liquid Fuel Upper Stage
 prime: Lockheed
 obj: Deep Space Missions
 ★ First to be used by AF, then NASA as replacement for cancelled Vega. AGENA B will have twice the tankage of AGENA A, and will have start-restart capability. First AF shot with THOR sched mid '60. First NASA shot with ATLAS sched mid '61.

ATLAS-ABLE NASA

Type: Large Booster
 prime: Convair/Space Tech Labs
 guide: GE/Burroughs/Am. Bosch
 power: Rocketdyne/Aerojet
 Obj: Designed to orbit 200-lb. satellite around moon.
 ★ 2 ATLAS-ABLE shots are sched for late '60. Both aimed at lunar orbit. Project going well, with much interest in this combo.

CENTAUR NASA

Type: Soft-Land Moon Vehicle
 prime: Convair
 power: P&W/JPL
 Obj: Designed to land 730-lb. payload on moon in soft landing.
 ★ CENTAUR is first Heavy Duty Space Vehicle. First firing sched for early '61. Eventually the bird will be used with ATLAS to TV moon and make moon landing. First system to use liquid hydrogen as a fuel.

COURIER ARPA (Army)

Type: Communications Satellite
 prime: Philco
 Obj: Designed to be delayed repeater satellite, part of PROJECT NOTUS.
 ★ Shot now sched for March.

DECREE ARPA (Army)

Type: Global Communications Satellite
 prime: no contracts announced
 Obj: Designed to be global communications system with satellite repeaters remaining stationary distances from each other.
 Part of NOTUS, will be transferred from ARPA to Army eventually.

PROJECT DISCOVERER AF

Type: Stabilized Satellites
 Obj: (a) Achieve orbital capabilities of large satellite vehicles.
 (b) Dvlpt tech for operational military satellite systems.

DATALOG OF MISSILE, SPACE AND DETECTION PROJECTS

(6th Sheet)

SPACE PROJECTS, April 1960

★ New information this month

- (c) Recover by use of suitable re-entry capsule for bio-medical and other studies.
 (d) Execute nonrecoverable advanced engineering tests.
 (e) Such other objectives as may be directed.
- Tasks:**
DISCOVERER satellites
 Prime: Lockheed
 ★ Has achieved orbit 6 times in 10 tries and has made successful re-entries. Ejected capsules have not been recovered.
MIDAS Satellites
 Prime: Lockheed
 ★ Now in test-flight stage of development. Early Warning Satellite developed to spot enemy ICBM launchings by infra-red.
SAMOS Satellites
 Prime: Lockheed
 ★ Not yet ready for flight. Orig. sched for March.

DYNA-SOAR I AF/NASA

- Type: Boost-Glide Orbiting Vehicle
 prime: Boeing (for Glider)
 Martin (for Booster)
 guide: not announced
 power: not announced
 Obj: Manned glider for orbit and re-entry
 ★ Air Force is re-evaluating DYNA-SOAR craft. Possible switch from glider to ballistic type body style.

PROJECT ECHO NASA

- Type: Inflatable Satellites
 Obj: Global communications experiment.
 ★ 1 more sub-orbital shot sched. Orbital shot by June will reflect radio waves between N.J. and Calif. Earlier sub-orbital shots were successful.

JUNO II NASA

- Type: Large Booster
 prime: Chrysler
 guide: Ford Instrument
 power: Rocketdyne/JPL
 Obj: Attempts to put small payloads in space.
 ★ Project to be completed, 1960.

LITTLE JOE NASA

- Type: Test Vehicle
 prime: North American
 power: Thiokol
 Obj: Test Vehicle for Mercury
 alt: 55 mi.
 dist: 200 mi.

- ★ 5 sub-orbital shots to date, 2 with monkeys. All LITTLE JOE'S flights were successful.

MERCURY NASA

- Type: Manned Satellite
 prime: McDonnell
 guide: not announced
 power: ATLAS (Rocketdyne)
 Obj: Will attempt to put man in brief orbit, then parachute him in capsule safely to earth.

- ★ NASA enthused over MERCURY project. Asks for more funds to keep firings on sched toward manned bird by '63. New estimate double orig cost est. Public enthusiasm still low despite attempts to raise it.

MIDAS WS 117L AF

- Type: Early Warning Satellite
 prime: Lockheed
 Obj: Infrared sensing of enemy ICBM launchings.

- ★ At least 5 years until MIDAS is operational. First launch failed. Second launch expected in March, minus infrared system. Monitor and tracking system now being tested in conventional aircraft.

MRS. V ARPA

- Type: Maneuverable, Recoverable Manned Space Vehicle
 No contracts announced
 Obj: Will attempt to place manned vehicle in orbit, then maneuver

out of original orbit in space, then return safely to earth.
 This project is also known as DYNA-SOAR II. Vehicle will weigh in excess of 20,000 lbs. Launch may be from or in space.

NIMBUS NASA

- Type: Meteorological Satellite
 Obj: Designed to take television pictures of cloud formations and frontal systems.

- ★ Follow up satellite for TIROS. Will be in circular polar orb. Earth oriented. Later models will have spectrometer and radar.

NOVA NASA

- Type: Large Booster
 prime: Rocketdyne
 power: Rocketdyne
 Obj: Will build 6-12 million lb. thrust booster for Outer Space
 ★ Rocketdyne's 1.5 million lb. thrust engine is heart of this system. NOVA will be cluster of 4-6 such engines. Engine in early development now, sched for operation after 1965.

ORION ARPA

- Type: Rocket propelled by nuclear pulses
 prime: General Atomic
 Obj: Nuclear powered Outer Space Vehicle
 ★ Switching soon to AF. Now moving into basic testing stage. Apx 2½ million spent to date.

PRINCIPIA ARPA

- Type: Solid Propellants
 prime: no contracts announced
 Obj: Developing new solid propellants with 10-20 percent higher specific impulses.

PONTUS ARPA

- Type: Material Research
 prime: no contracts announced
 Obj: Experimentation and development of better structural and power conversion mats for military requirements in surface, air and missile programs.

PROJECT RANGER NASA

- Type: Lunar Probe
 prime: Jet Propulsion Lab/Hughes/Aeronutronics/North American
 Obj: Hard landing of instruments on moon
 ★ ATLAS-AGENA B will launch 300 lb. lunar capsule for scientific study of moon surface. Only study contracts have been released.

PROJECT ROVER AEC/NASA

- Type: Nuclear rocket
 Obj: Prove feasibility of nuclear rocket
 ★ Now in R&D. Lockheed has contract to find adequate atom resistant materials. Industry evaluation of practical test flight system soon to be asked. AEC to develop power-plant, KIWI-A and advanced KIWI-A3. NASA to provide frame and test combined power-plant-air frame.

SAMOS WS 117L AF (via ARPA)

- Type: Reconnaissance Satellite
 prime: Lockheed
 Obj: TV Satellite
 ★ SAMOS is part of the DISCOVERER series designed to be a "Peeping Tom" on enemy military capabilities. State Dept. worried over political complications of camera satellite. Launching delayed.

DATALOG OF MISSILE, SPACE AND DETECTION PROJECTS

SPACE PROJECTS, April 1960

★ New information this month

SATURN NASA

Type: Large Booster
prime: Convair
power: Pratt & Whitney
Obj: Clustered 1.5 million lb. thrust booster for Outer Space Vehicles.

★ TITAN is ruled out. SATURN with 2 stages above it—an 80,000 lb. thrust hi-energy stage and a CENTAUR stage could put 15 tons in earth orbit. First R&D launch sched for late '61. Bids now in for 200,000 lb. thrust engine in for upper-stage. NASA claims SATURN as our greatest hope for space supremacy. Will get biggest bite of NASA '61 budget.

SCOUT NASA

Type: Four-stage Satellite Launch Vehicle
prime: Chance Vought
guide: Minn-Honeywell
power: Aerojet/Allegany/Thiokol
Obj: Designed to place 200-300 lb. satellites in orbit.

★ Some delays in this 4-stage rocket has caused sked. for first satellite launch to be moved to 1962. First test firing mid '60 from Vandenberg.

SHEPARD ARPA

Type: Tracking Satellite
prime: no contracts announced
Obj: Tracking and data reduction

This satellite will soon come into more prominence. It is needed.

STEER ARPA

Type: Communications Satellite
prime: Bendix
Obj: Destined to serve the Strategic Air Command for communications purposes, STEER is part of the NOTUS project. STEER will be launched in a polar orbit. Still in R&D. Army will dvlp the satellite, AF will launch it.

SUNRISE ARPA

PROJECT SUNRISE will make studies of advanced military weapons with special concentration on space delivery.

SUZANO ARPA

Type: Space Platform
prime: no contracts announced
Obj: Designed to provide space platform for assembling Outer Space Vehicles, and to be used as a springboard base for advanced space missions.

Project being cancelled for lack of funds and as necessary "must go" in ARPA shake-up.

THOR-ABLE NASA

Type: Large Booster
prime: Douglas/Space Tech Labs
guide: GE
power: Rocketdyne/Aerojet
Obj: Designed for deep space probes of lighter payloads than ATLAS-ABLE.

★ PIONEER 5 on course. Miniature planet can send back info from 50 million miles. New info on space between Earth and Venus. THOR-ABLE combo has always had good reliability.

THOR-DELTA NASA

Type: Satellite Launching Vehicle guide: ITT
prime: Douglas
power: Aerojet/Allegany
Obj: Designed to put small satellites (50-80 lbs.) into orbit around moon.

★ First flights now shed for mid 1960.

TIROS NASA

Type: Meteorological Satellite
prime: RCA
Obj: Reveal certain aspects of the nature of weather

★ March is the date for TIROS I launch. After THOR-ABLE pushes the bird off the pad at Canaveral, its life span will be 90 days. The 270 lb. satellite will carry two TV cameras to reveal cloud formations and frontal systems.

TIROS 2 NASA

Type: Meteorological Satellite
prime: RCA
Obj: Provide info on nature of weather

★ TIROS 2 will be much the same as its predecessor TIROS 1. Its power will be THOR-DELTA, and it is sched for mid '60.

PROJECT TRANSIT ARPA

Obj: Astro-Geodetic Navigation Satellite

★ Because of delays due to booster problems, PROJECT TRANSIT payload has been cut from 270 lbs. to 50 lbs. Launch sched for April with switch from THOR-ABLE to SCOUT bird.

PROJECT TRIBE ARPA

Obj: Outer Space Vehicles

PROJECT TRIBE is a research, experimentation and systems dvlpmnt designed to obtain at the earliest practical date a continuing family of military space vehicles capable of satisfying the needs for space missions as may be determined by Secretary of Defense from time to time. Guidance, stabilization and control components necessary to satisfactory performance of the vehicles shall be included in the scope of this assignment. The SATURN Task and AGENA Task are part of Project TRIBE.

X-15 AF/Navy/NASA

Type: Rocket-Powered Manned Aircraft
prime: North American
power: Thiokol
Obj: Designed to take man in controllable a/c to fringes of outer space—100,000-ft. altitude, at speed of Mach 5 (better than 3600 mph.).

★ Seven successful limited alt. power flights have been made. Latest reached 80,000 feet. First flights now being made with NASA pilot.

PROJECT YO YO Navy

Type: Reconnaissance Satellite

Satellite for photo, recon. Ship or sub launch.

DATALOG OF MISSILE, SPACE AND DETECTION PROJECTS

(8th Sheet)

DETECTION PROJECTS, April 1960

★ New information this month

BALLISTIC MISSILE DEFENSE BMEWS AF

Type: Ballistic Missile Defense Radar System
prime: RCA
Obj: Ballistic Missile Early Warning System designed for 40-minute notice of approaching enemy ICBMs.

★ BMEWS Greenland ready by end of '60. BMEWS Alaska will be operational '61. Price tag: \$700 million.

PROJECT DEFENDER ARPA

Obj: Ballistic Missile Defense
ESAR, TRADEX and PINCUSHION are only part of the entire ballistic missile defense program of ARPA. The GLIPAR studies, (Guide Line Identification Program for Anti-Missile Research) is also a part of Project DEFENDER.

ESAR ARPA

Type: Advanced Warning Radar
prime: Bendix
Obj: Electronically Steerable Array Radar is designed for ground installation to warn of approaching enemy missiles. Multitude of individual cells will give more flexibility than other systems of steerable radar.

GLIPAR ARPA

Type: Study Group for Missile Defense
Obj: Designed to work on future ICBM defense. Called upon by DEFENDER and LONGSIGHT.

PROJECT LONGSIGHT ARPA

Type: Study System in Missile/Space Field
Obj: Recommendations as to projects which should be initiated to satisfy future military requirements. GLIPAR (Guide Line Identification Program for Anti-Missile Research) which was

initiated. GLIPAR is now used by both LONGSIGHT and DEFENDER. LONGSIGHT more advanced than DEFENDER.

PINCUSHION ARPA

Type: Advanced Radar prime: Raytheon
Obj: PINCUSHION is a many-frequency radar installation to be located on Kwajalein in the Marshall Islands, initially, as an early warning radar of a more variable type than TRADEX or ESAR.

SAGE AF

Type: Continental air warning and control network
prime: IBM
Obj: Provides a push-button missile defense utilizing a search radar system to locate enemy aircraft and destroy them with integrated BOMARC missiles.

TRADEX ARPA

Type: Advanced Radar Prime: RCA
Obj: TRADEX is a modification of the radar types recently designed for BMEWS (Ballistic Missile Early Warning System). It should have better range.

PROJECT TEEPEE ARPA

Type: Long Range, High Frequency Radar
Obj: ★ Provide ICBM detection

VELA ARPA

Obj: Research, experimentation and systems development related to the nuclear test moratorium.

★ Will be cut back along with BOMARC to push ahead other programs. Ultimate savings of \$500 million.

Technical Notes

JUNO II shot attempt unsuccessful due to second stage rocket failure. NASA reports one more attempt will be made in 1960.

Latest from Nord Aviation is the development of SS-12, big brother to SS-10 and SS-11. This anti-tank weapon has a range of over 4 mi., and weighs 150 lbs. It can be launched from ground units or from a slow moving plane or helicopter. Nord is now moving into mass production in hopes that U.S. Army will buy SS-12.

SAMOS Reconnaissance Satellite launch is scheduled for August, 1960.

Recently released is a statement by Wernher von Braun before the House Appropriations Subcommittee. He stated that a nuclear stage for SATURN is planned for launching in 1968 or 1969. It will be capable of delivering a 72,000 lb payload to a 300 mi orbit.

AF has requested additional \$42½ million for BMEWS construction in England. Reason: Some areas of U.S. can be hit by undetected Russian ICBMs, undetected by presently planned BMEWS sites.

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Deadline for advertisements: 7 March 1960

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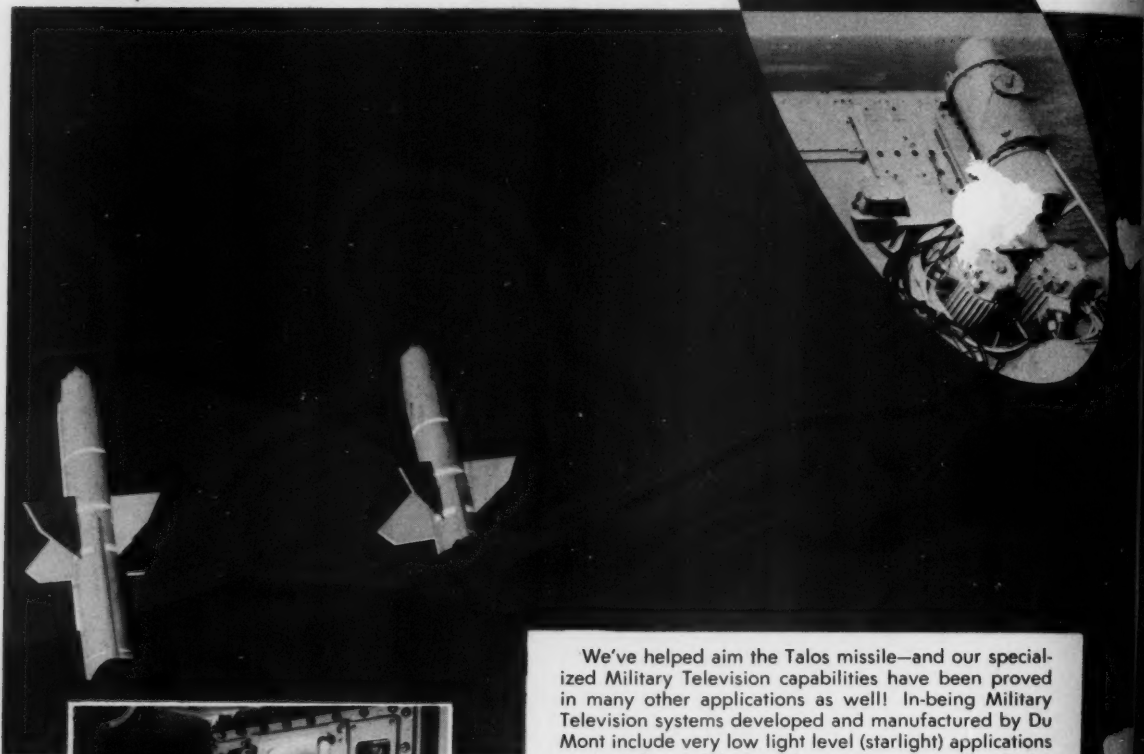
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